

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT

<b>APPLICATION FOR PERMIT TO DRILL</b>		<b>1. WELL NAME and NUMBER</b> BONANZA 1023-5E2AS
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>		<b>3. FIELD OR WILDCAT</b> NATURAL BUTTES
<b>4. TYPE OF WELL</b> Gas Well      Coalbed Methane Well: NO		<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b>
<b>6. NAME OF OPERATOR</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. OPERATOR PHONE</b> 720 929-6515
<b>8. ADDRESS OF OPERATOR</b> P.O. Box 173779, Denver, CO, 80217		<b>9. OPERATOR E-MAIL</b> julie.jacobson@anadarko.com
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> UTU33433	<b>11. MINERAL OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>	
<b>12. SURFACE OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>
<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>		<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>
<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>		<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>
<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>		<b>19. SLANT</b> VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	529 FNL 490 FWL	NWNW	5	10.0 S	23.0 E	S
Top of Uppermost Producing Zone	1461 FNL 384 FWL	SWNW	5	10.0 S	23.0 E	S
At Total Depth	1461 FNL 384 FWL	SWNW	5	10.0 S	23.0 E	S

<b>21. COUNTY</b> UINTAH	<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 1257	<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 1923
<b>24. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 276	<b>25. PROPOSED DEPTH</b> MD: 8674 TVD: 8529	
<b>26. ELEVATION - GROUND LEVEL</b> 5242	<b>27. BOND NUMBER</b> WYB000291	<b>28. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 43-8496

**Hole, Casing, and Cement Information**

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	11	8.625	0 - 2340	28.0	J-55 LT&C	0.2	Type V	180	1.15	15.8
							Class G	270	1.15	15.8
Prod	7.875	4.5	0 - 8674	11.6	I-80 LT&C	12.5	Premium Lite High Strength	280	3.38	11.0
							50/50 Poz	1160	1.31	14.3

**ATTACHMENTS**

**VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES**

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

<b>NAME</b> Gina Becker	<b>TITLE</b> Regulatory Analyst II	<b>PHONE</b> 720 929-6086
<b>SIGNATURE</b>	<b>DATE</b> 10/14/2011	<b>EMAIL</b> gina.becker@anadarko.com
<b>API NUMBER ASSIGNED</b> 43047520950000	<b>APPROVAL</b>   Permit Manager	

**Kerr-McGee Oil & Gas Onshore. L.P.****BONANZA 1023-5E2AS**

Surface:	529 FNL / 490 FWL	NWNW
BHL:	1461 FNL / 384 FWL	SWNW

Section 5 T10S R23E

Uintah County, Utah  
Mineral Lease: UTU-33433

**ONSHORE ORDER NO. 1****DRILLING PROGRAM**

1. & 2. **Estimated Tops of Important Geologic Markers:**  
**Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1255	
Birds Nest	1537	Water
Mahogany	1888	Water
Wasatch	4271	Gas
Mesaverde	6379	Gas
MVU2	7357	Gas
MVL1	7910	Gas
TVD	8529	
TD	8674	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

7. **Abnormal Conditions:**

Maximum anticipated bottom hole pressure calculated at 8529' TVD, approximately equals  

$$\frac{5,459 \text{ psi}}{0.64 \text{ psi/ft}} = \text{actual bottomhole gradient}$$

---

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,570 psi (bottom hole pressure  
 minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

---

Per Onshore Order No. 2 - Max Anticipated Surf. Press. (MASP) = (Pore Pressure at next csg point -  
 (0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. **Anticipated Starting Dates:**

Drilling is planned to commence immediately upon approval of this application.

9. **Variations:**

Please refer to the attached Drilling Program.  
 Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- Blowout Prevention Equipment (BOPE) requirements;
- Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

**Background**

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

#### **Variance for BOPE Requirements**

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

#### **Variance for Mud Material Requirements**

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

#### **Variance for Special Drilling Operation (surface equipment placement) Requirements**

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

**Variance for FIT Requirements**

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

**Conclusion**

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

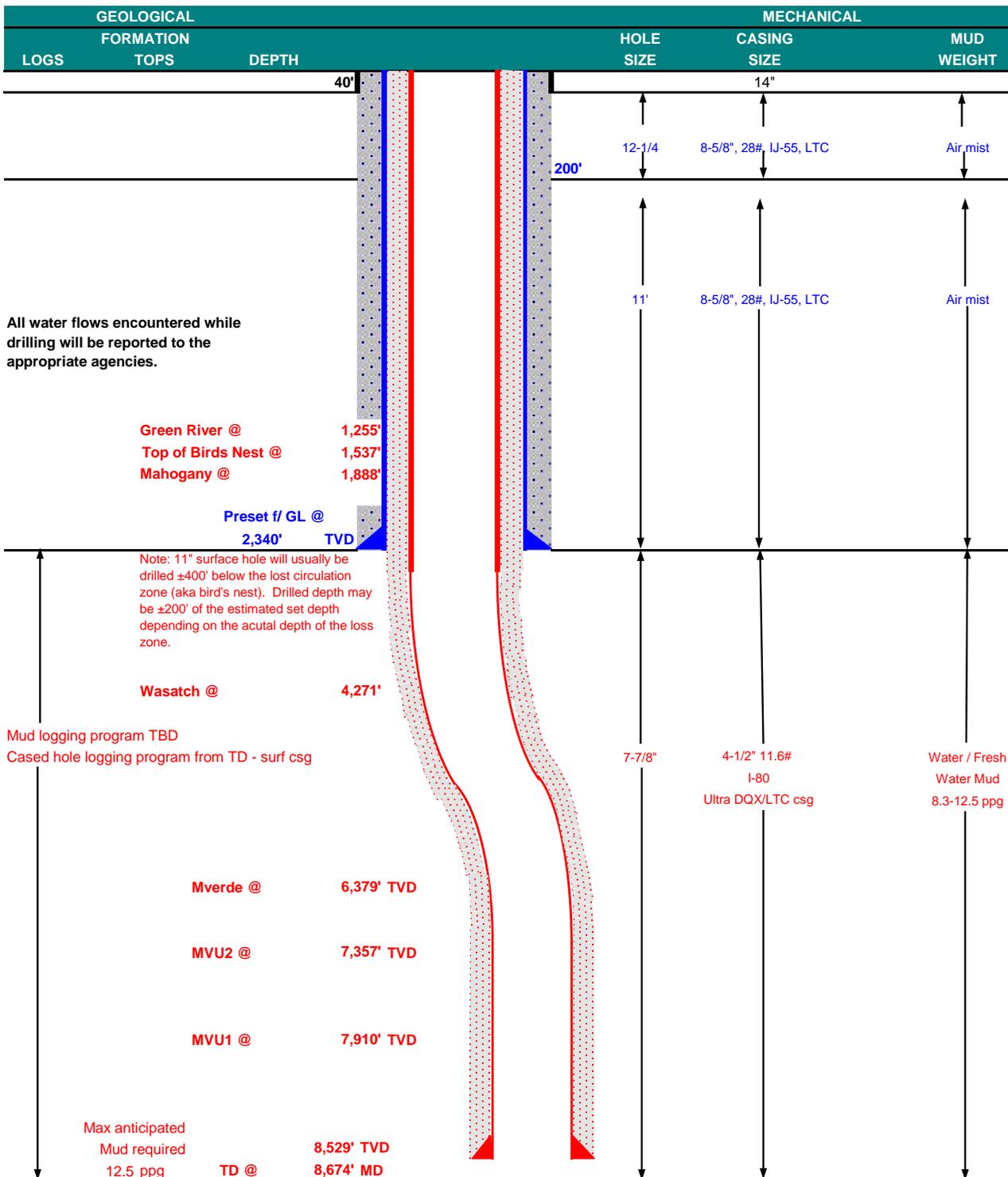
10. **Other Information:**

Please refer to the attached Drilling Program.



## KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP			DATE	October 13, 2011		
WELL NAME	<b>BONANZA 1023-5E2AS</b>			TD	8,529'	8,674' MD	
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION	5241.7
SURFACE LOCATION	NWNW	529 FNL	490 FWL	Sec 5	T 10S	R 23E	
	Latitude:	39.983791	Longitude:	-109.358379	NAD 83		
BTM HOLE LOCATION	SWNW	1461 FNL	384 FWL	Sec 5	T 10S	R 23E	
	Latitude:	39.981232	Longitude:	-109.358756	NAD 83		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde						
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.						





**KERR-McGEE OIL & GAS ONSHORE LP**  
**DRILLING PROGRAM**

**CASING PROGRAM**

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						BURST	LTC		DQX
							COLLAPSE	TENSION	
CONDUCTOR	14"	0-40'				3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0 to 2,340	28.00	IJ-55	LTC	2.31	1.72	6.07	N/A
						7,780	6,350	223,000	267,035
PRODUCTION	4-1/2"	0 to 5,000	11.60	I-80	DQX	1.11	1.15		3.28
						4-1/2"	5,000 to 8,674'	11.60	I-80

**Surface Casing:**

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe  
 Fracture at surface shoe with 0.1 psi/ft gas gradient above  
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoys.Fact. of water)

**Production casing:**

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.64 psi/ft = bottomhole gradient  
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoys.Fact. of water)

**CEMENT PROGRAM**

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
<b>NOTE: If well will circulate water to surface, option 2 will be utilized</b>							
SURFACE Option 2	LEAD	1,840'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	170	35%	11.00	3.82
	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	3,764'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	280	20%	11.00	3.38
	TAIL	4,910'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,160	35%	14.30	1.31

\*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained  
 \*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

**FLOAT EQUIPMENT & CENTRALIZERS**

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

**ADDITIONAL INFORMATION**

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

**DRILLING ENGINEER:**

Nick Spence / Danny Showers / Chad Loesel

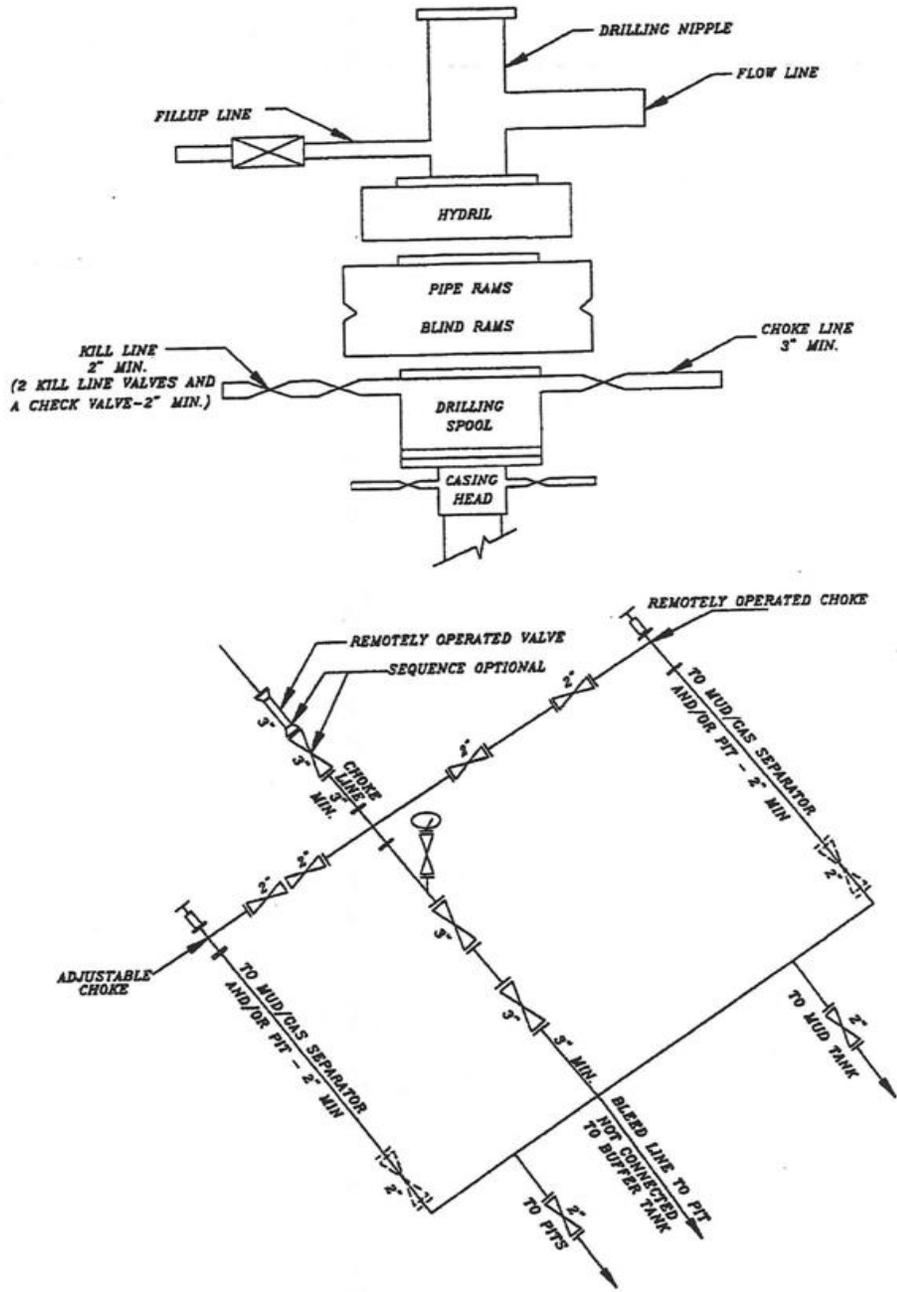
**DATE:**

**DRILLING SUPERINTENDENT:**

Kenny Gathings / Lovel Young

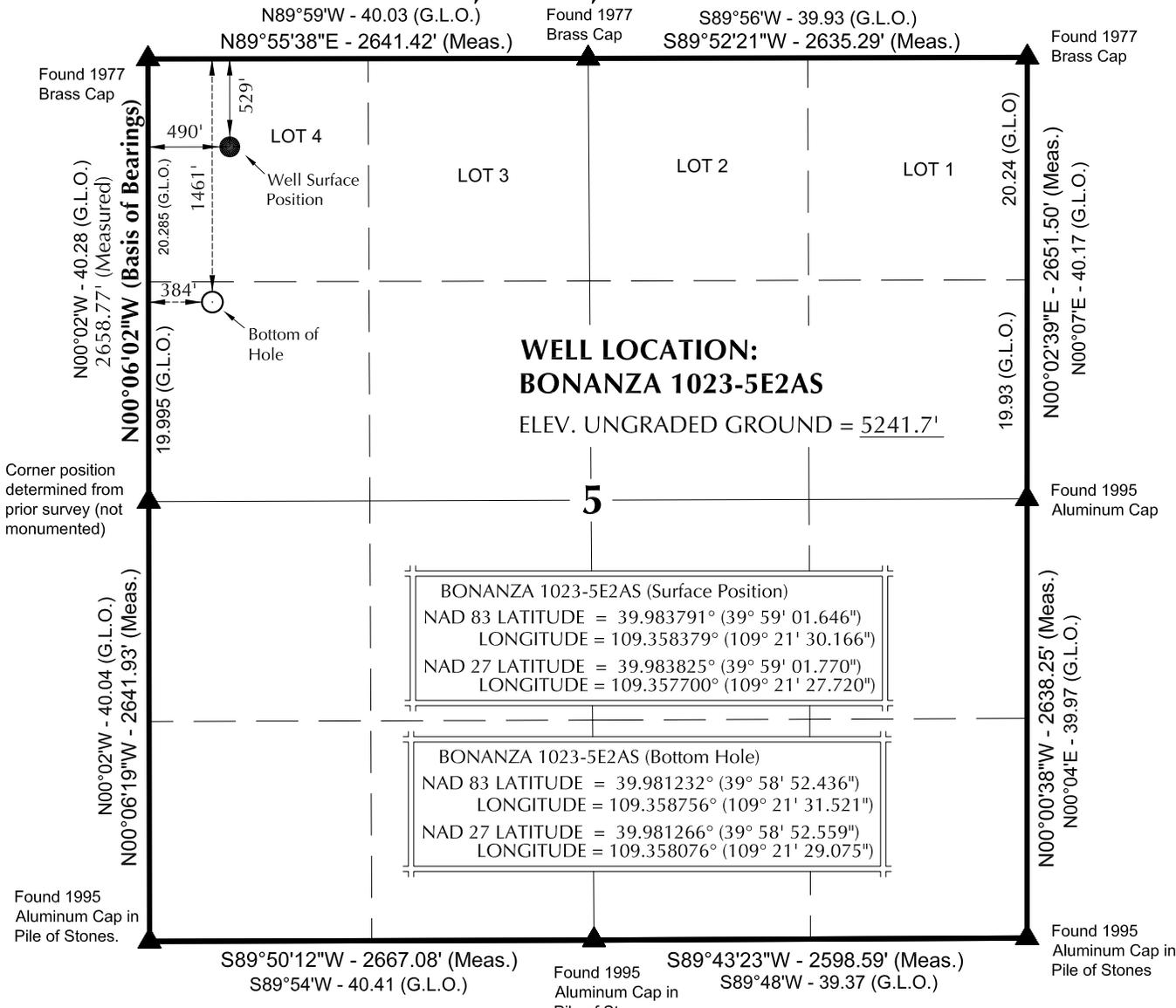
**DATE:**

**EXHIBIT A  
BONANZA 1023-5E2AS**



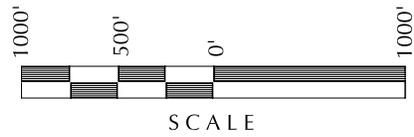
**SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK**

# T10S, R23E, S.L.B.&M.



**NOTES:**

- ▲ = Section Corners Located
- 1. Well footages are measured at right angles to the Section Lines.
- 2. G.L.O. distances are shown in feet or chains.  
1 chain = 66 feet.
- 3. The Bottom of hole bears S06°23'22"W 938.22' from the Surface Position.
- 4. Bearings are based on Global Positioning Satellite observations.
- 5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.



**SURVEYOR'S CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*John R. Slough*  
 PROFESSIONAL LAND SURVEYOR  
 REGISTRATION No. 6028691  
 STATE OF UTAH

**Kerr-McGee Oil & Gas Onshore, LP**  
 1099 18th Street - Denver, Colorado 80202

**WELL PAD - BONANZA 1023-5D**

**BONANZA 1023-5E2AS**  
**WELL PLAT**  
 1461' FNL, 384' FWL (Bottom Hole)  
 SW ¼ NW ¼ OF SECTION 5, T10S, R23E,  
 S.L.B.&M., UTAH COUNTY, UTAH.



**CONSULTING, LLC**  
 371 Coffeen Avenue  
 Sheridan WY 82801  
 Phone 307-674-0609  
 Fax 307-674-0182

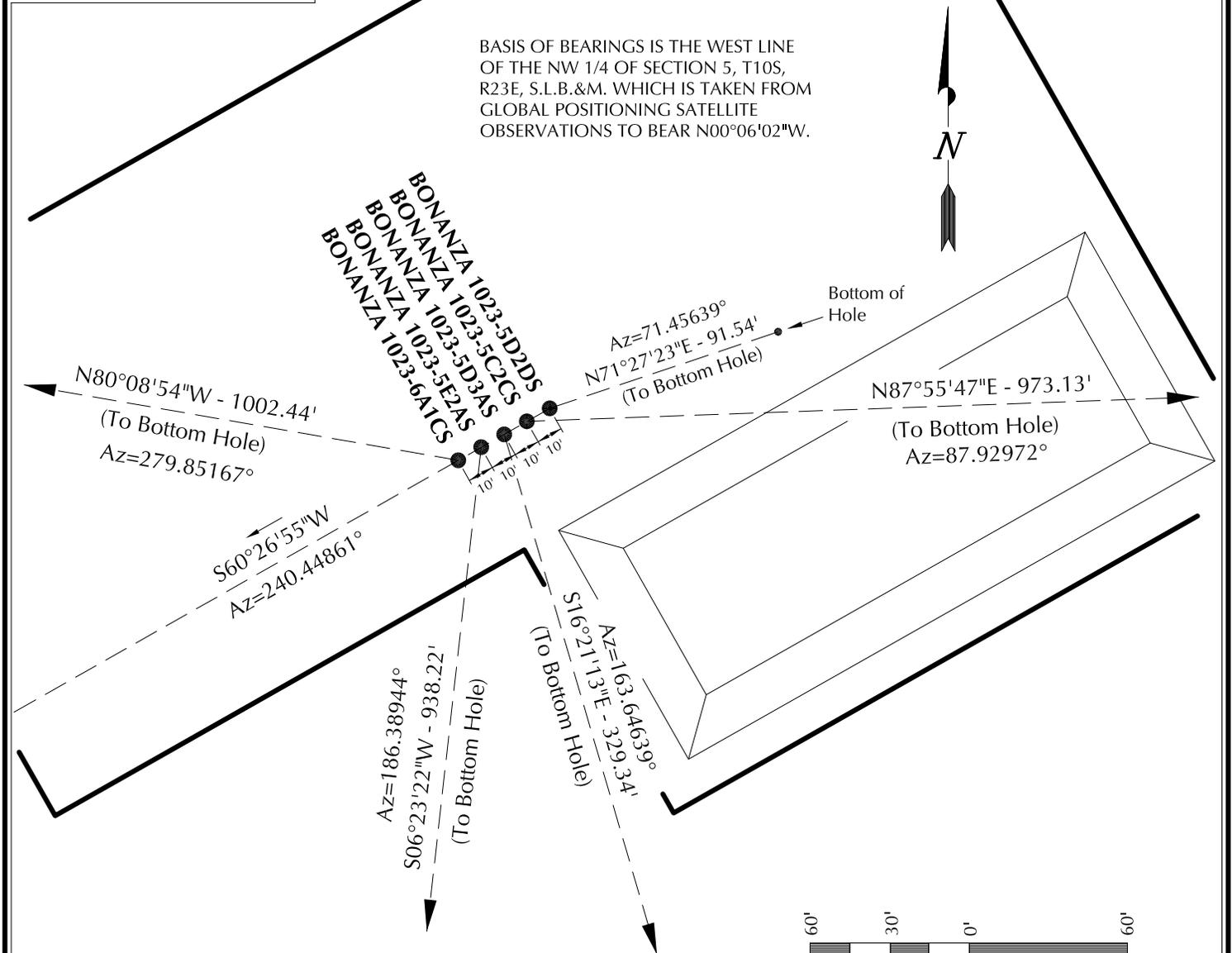
**TIMBERLINE** (435) 789-1365  
 ENGINEERING & LAND SURVEYING, INC.  
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 03-08-10	SURVEYED BY: M.S.B.	SHEET NO: <b>2</b>
DATE DRAWN: 03-09-10	DRAWN BY: E.M.S.	
SCALE: 1" = 1000'	Date Last Revised: 05-28-10 E.M.S.	2 OF 19

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
BONANZA 1023-6A1CS	39°59'01.597"	109°21'30.277"	39°59'01.720"	109°21'27.832"	534' FNL	39°59'03.303"	109°21'42.959"	39°59'03.426"	109°21'40.513"	361' FNL
BONANZA 1023-5E2AS	39.983777°	109.358410°	39.983811°	109.357731°	481' FWL	39.984251°	109.361933°	39.984285°	109.361254°	506' FEL
BONANZA 1023-5D3AS	39°59'01.646"	109°21'30.166"	39°59'01.770"	109°21'27.720"	529' FNL	39°58'52.436"	109°21'31.521"	39°58'52.559"	109°21'29.075"	1461' FNL
BONANZA 1023-5C2CS	39.983791°	109.358379°	39.983825°	109.357700°	490' FWL	39.981232°	109.358756°	39.981266°	109.358076°	384' FWL
BONANZA 1023-5D2DS	39°59'01.695"	109°21'30.053"	39°59'01.818"	109°21'27.607"	524' FNL	39°58'58.571"	109°21'28.867"	39°58'58.694"	109°21'26.421"	840' FNL
BONANZA 1023-5D3AS	39.983804°	109.358348°	39.983838°	109.357669°	499' FWL	39.982936°	109.358019°	39.982971°	109.357339°	591' FWL
BONANZA 1023-5C2CS	39°59'01.743"	109°21'29.942"	39°59'01.867"	109°21'27.497"	519' FNL	39°59'02.079"	109°21'17.452"	39°59'02.202"	109°21'15.007"	485' FNL
BONANZA 1023-5C2CS	39.983818°	109.358317°	39.983852°	109.357638°	507' FWL	39.983911°	109.354848°	39.983945°	109.354168°	1480' FWL
BONANZA 1023-5D2DS	39°59'01.792"	109°21'29.830"	39°59'01.915"	109°21'27.385"	514' FNL	39°59'02.079"	109°21'28.715"	39°59'02.202"	109°21'26.270"	485' FNL
BONANZA 1023-5D2DS	39.983831°	109.358286°	39.983865°	109.357607°	516' FWL	39.983911°	109.357976°	39.983945°	109.357297°	603' FWL

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
BONANZA 1023-6A1CS	171.5'	-987.7'	BONANZA 1023-5E2AS	-932.4'	-104.4'	BONANZA 1023-5D3AS	-316.0'	92.7'	BONANZA 1023-5C2CS	35.2'	972.5'
BONANZA 1023-5D2DS	29.1'	86.8'									



**Kerr-McGee Oil & Gas Onshore, LP**  
 1099 18th Street - Denver, Colorado 80202

**WELL PAD - BONANZA 1023-5D**

**WELL PAD INTERFERENCE PLAT**  
 WELLS - BONANZA 1023-6A1CS,  
 BONANZA 1023-5E2AS, BONANZA 1023-5D3AS,  
 BONANZA 1023-5C2CS & BONANZA 1023-5D2DS  
 LOCATED IN SECTION 5, T10S, R23E,  
 S.L.B.&M., UINTAH COUNTY, UTAH.



**CONSULTING, LLC**  
 371 Coffeen Avenue  
 Sheridan WY 82801  
 Phone 307-674-0609  
 Fax 307-674-0182

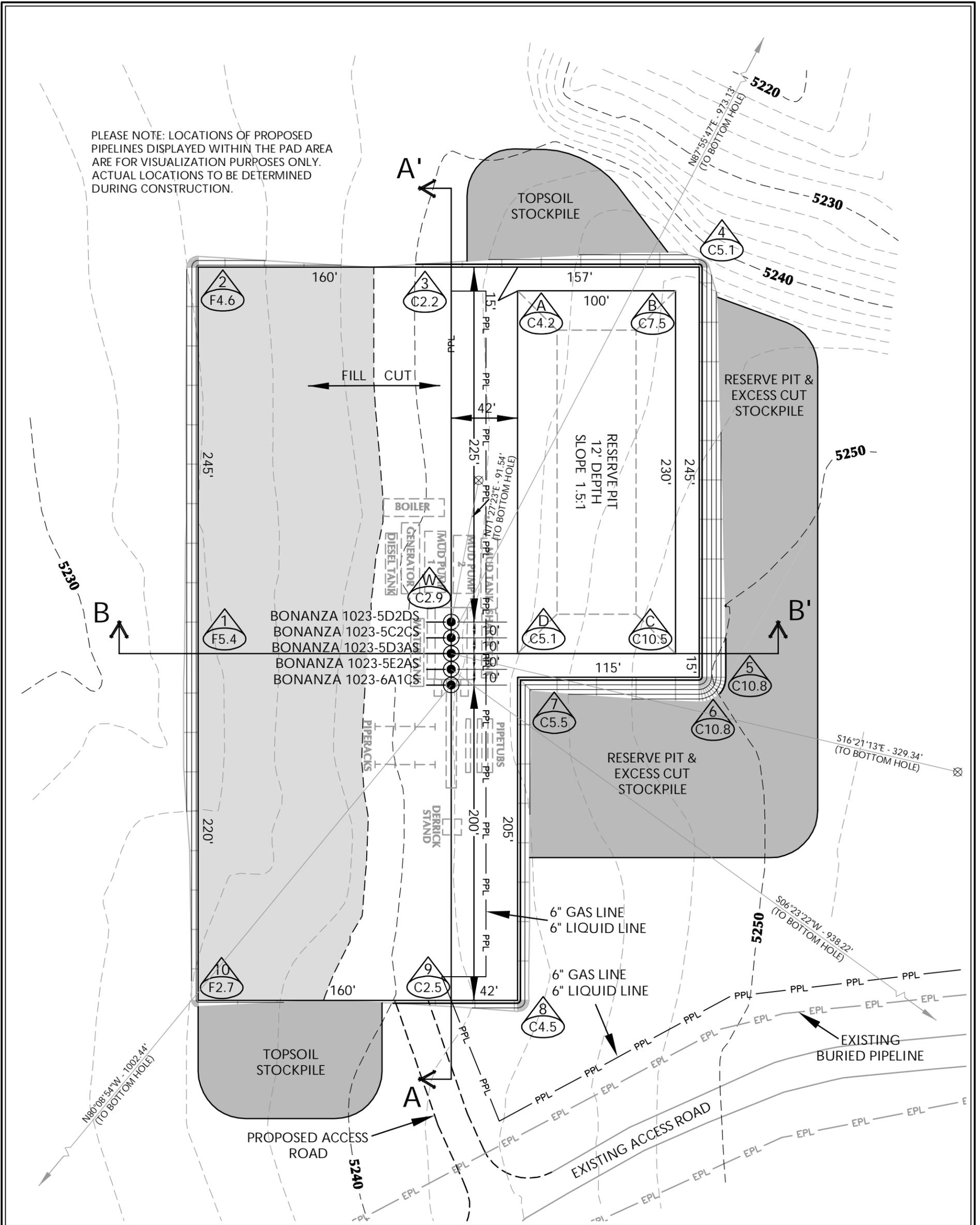
**TIMBERLINE**

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.  
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 03-08-10	SURVEYED BY: M.S.B.	SHEET NO: <b>6</b>
DATE DRAWN: 03-09-10	DRAWN BY: E.M.S.	
SCALE: 1" = 60'	Date Last Revised: 05-28-10 E.M.S.	6 OF 17

PLEASE NOTE: LOCATIONS OF PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.



**WELL PAD - BONANZA 1023-5D DESIGN SUMMARY**

EXISTING GRADE @ CENTER OF WELL PAD = 5241.7'  
 FINISHED GRADE ELEVATION = 5238.8'  
 CUT SLOPES = 1.5:1  
 FILL SLOPES = 1.5:1  
 TOTAL WELL PAD AREA = 3.13 ACRES  
 TOTAL DAMAGE AREA = 5.89 ACRES  
 SHRINKAGE FACTOR = 1.10  
 SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP  
 1099 18th Street - Denver, Colorado 80202

**WELL PAD - BONANZA 1023-5D**

WELL PAD - LOCATION LAYOUT  
 BONANZA 1023-6A1CS,  
 BONANZA 1023-5E2AS, BONANZA 1023-5D3AS,  
 BONANZA 1023-5C2CS & BONANZA 1023-5D2DS,  
 LOCATED IN SECTION 5, T10S, R23E,  
 S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC  
 371 Coffeen Avenue  
 Sheridan, WY 82801  
 Phone 307-674-0609  
 Fax 307-674-0182

**WELL PAD QUANTITIES**

TOTAL CUT FOR WELL PAD = 11,042 C.Y.  
 TOTAL FILL FOR WELL PAD = 6,225 C.Y.  
 TOPSOIL @ 6" DEPTH = 2,526 C.Y.  
 EXCESS MATERIAL = 4,817 C.Y.

**RESERVE PIT QUANTITIES**

TOTAL CUT FOR RESERVE PIT  
 +/- 7,780 CY  
 RESERVE PIT CAPACITY (2' OF FREEBOARD)  
 +/- 29,550 BARRELS

**WELL PAD LEGEND**

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PROPOSED PIPELINE
- EXISTING PIPELINE

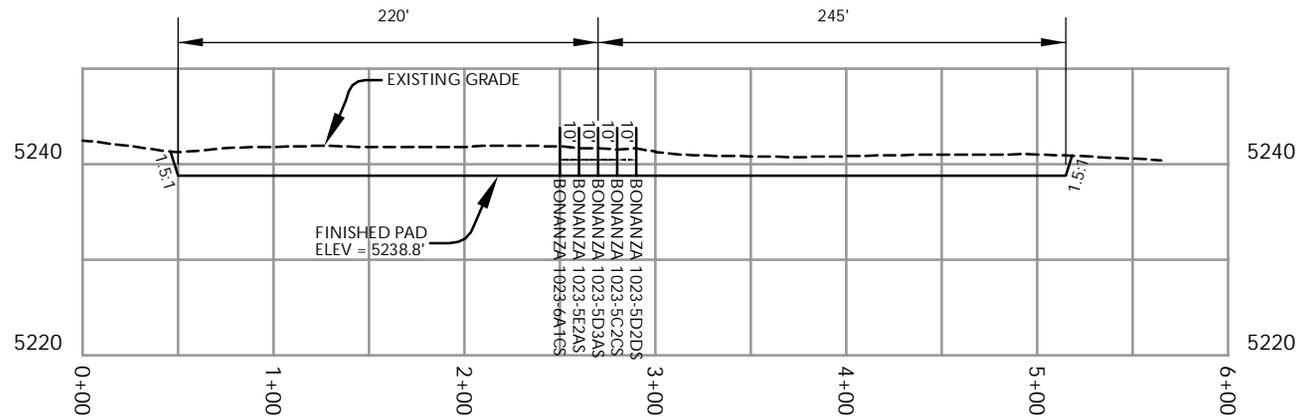


HORIZONTAL 0 30 60 1" = 60'  
 2' CONTOURS

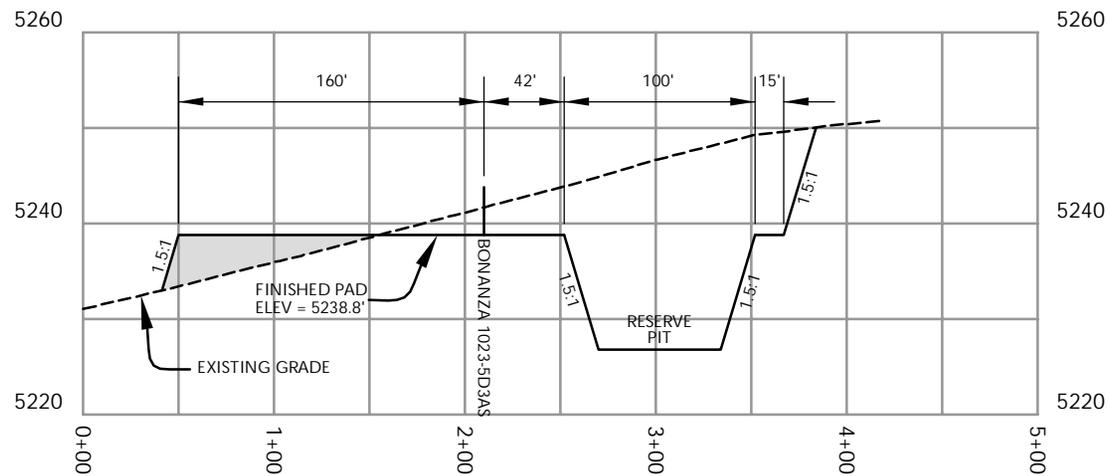
**TIMBERLINE** ENGINEERING & LAND SURVEYING, INC.  
 209 NORTH 300 WEST - VERNAL, UTAH 84078  
 (435) 789-1365

Scale: 1"=60' Date: 3/30/10 SHEET NO: 7  
 REVISED: SEA 6/25/10 7 OF 17

K:\ANADARKO\2010\_11\_BON\_FOCUS\_SEC\_5-1023\DWGS\BONANZA 1023-5D\1023-5D 20100602.dwg, 7/29/2010 11:45:05 PM



**CROSS SECTION A-A'**



**CROSS SECTION B-B'**

NOTE: CROSS SECTION B-B' DEPICTS MAXIMUM RESERVE PIT DEPTH.

**Kerr-McGee Oil & Gas Onshore, LP**  
1099 18th Street - Denver, Colorado 80202

**WELL PAD - BONANZA 1023-5D**

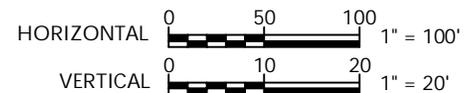
WELL PAD - CROSS SECTIONS  
BONANZA 1023-6A1CS,  
BONANZA 1023-5E2AS, BONANZA 1023-5D3AS,  
BONANZA 1023-5C2CS & BONANZA 1023-5D2DS,  
LOCATED IN SECTION 5, T10S, R23E,  
S.L.B.&M., Uintah County, Utah



**CONSULTING, LLC**  
371 Coffeen Avenue  
Sheridan, WY 82801  
Phone 307-674-0609  
Fax 307-674-0182

**TIMBERLINE**  
**ENGINEERING & LAND SURVEYING, INC.**  
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365



Scale: 1"=100'

Date: 3/30/10

SHEET NO:

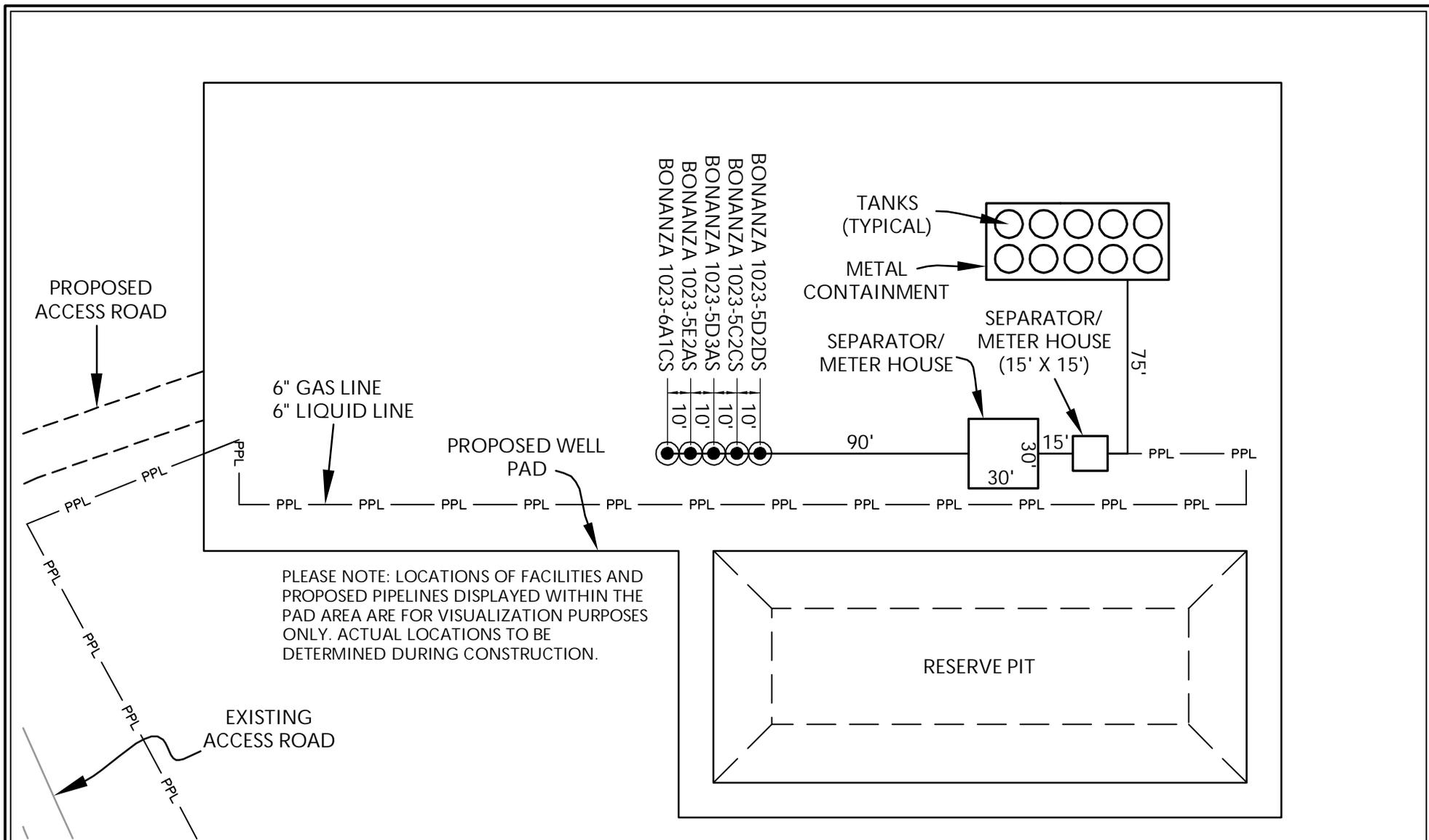
REVISED: SEA 6/25/10

**8**

8 OF 17

**RECEIVED: October 14, 2011**

K:\ANADARKO\2010\_11\_BON\_FOCUS\_SEC\_5-1023\DWGS\BONANZA 1023-5D\1023-5D 20100602.dwg, 7/29/2010 11:44:30 PM



PLEASE NOTE: LOCATIONS OF FACILITIES AND PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

**Kerr-McGee Oil & Gas Onshore, LP**  
1099 18th Street - Denver, Colorado 80202

**WELL PAD - BONANZA 1023-5D**

WELL PAD - FACILITIES DIAGRAM  
BONANZA 1023-6A1CS,  
BONANZA 1023-5E2AS, BONANZA 1023-5D3AS,  
BONANZA 1023-5C2CS & BONANZA 1023-5D2DS,  
LOCATED IN SECTION 5, T10S, R23E,  
S.L.B.&M., Uintah County, Utah



**CONSULTING, LLC**  
371 Coffeen Avenue  
Sheridan, WY 82801  
Phone 307-674-0609  
Fax 307-674-0182

**WELL PAD LEGEND**

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE



HORIZONTAL 0 30' 60' 1" = 60'

**TIMBERLINE ENGINEERING & LAND SURVEYING, INC.**  
209 NORTH 300 WEST - VERNAL, UTAH 84078  
(435) 789-1365

Scale: 1"=60' Date: 3/30/10  
REVISED: SEA 6/25/10

SHEET NO:  
**9**  
9 OF 17

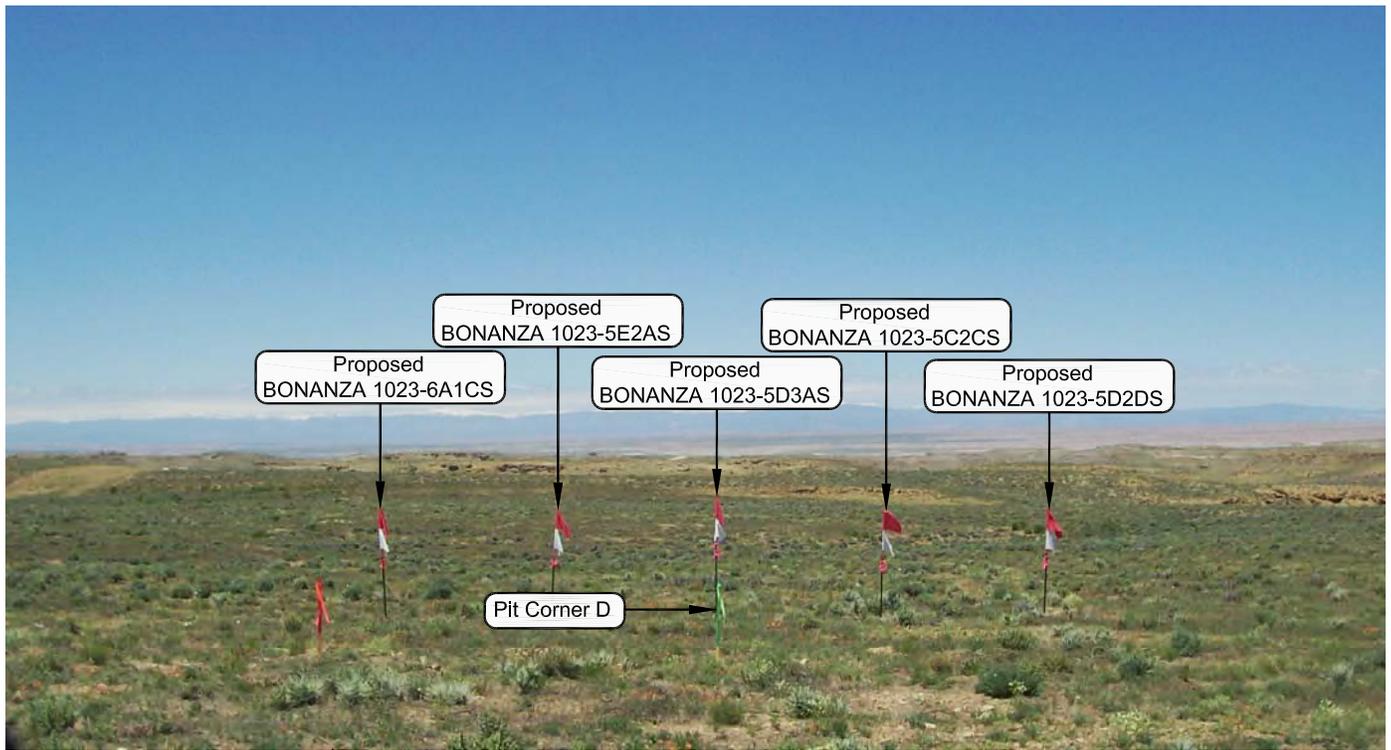


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKES

CAMERA ANGLE: NORTHWESTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHEASTERLY

**Kerr-McGee Oil & Gas Onshore, LP**  
 1099 18th Street - Denver, Colorado 80202

**WELL PAD - BONANZA 1023-5D**

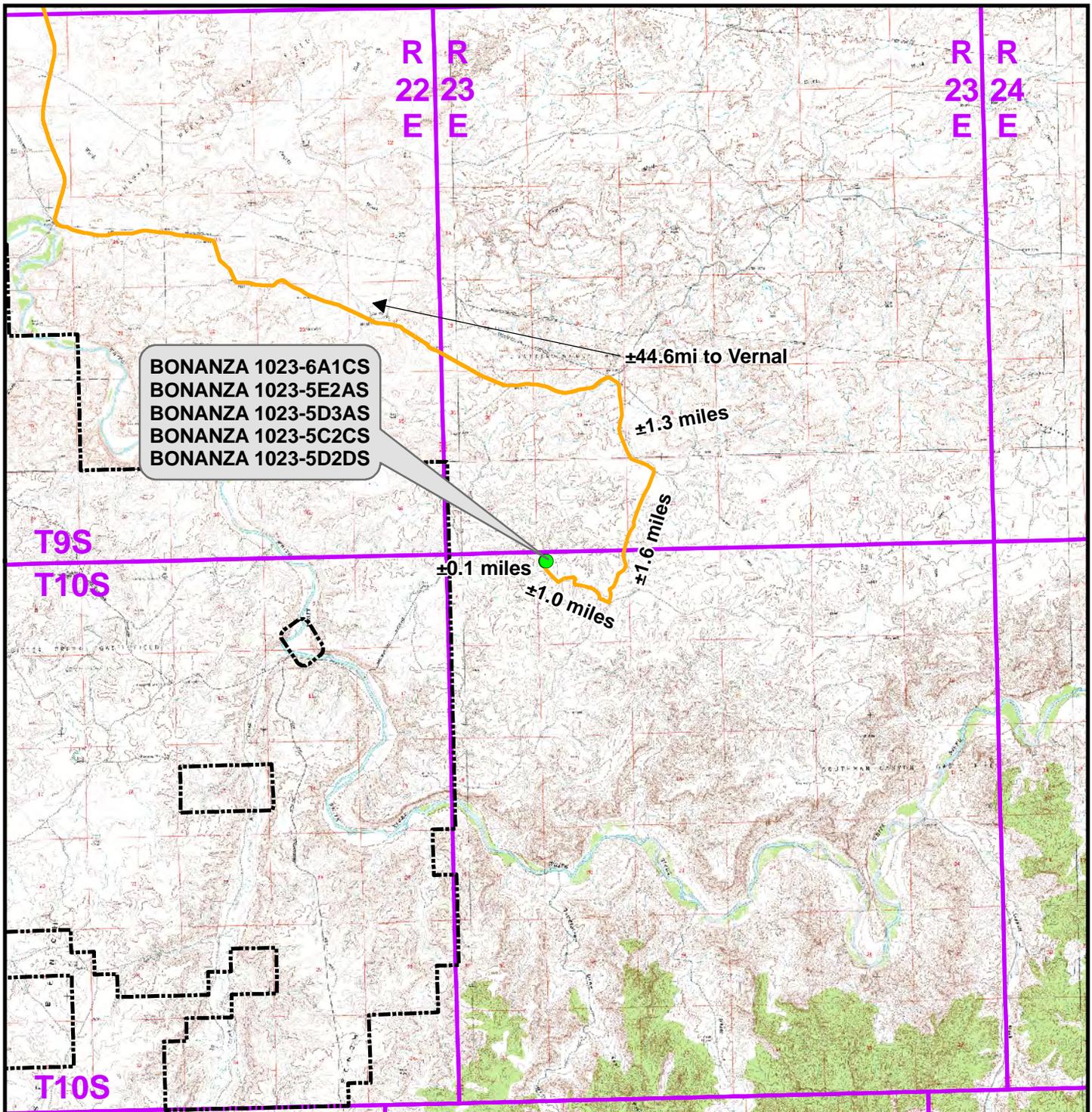
**LOCATION PHOTOS**  
 BONANZA 1023-6A1CS, BONANZA 1023-5E2AS,  
 BONANZA 1023-5D3AS, BONANZA 1023-5C2CS  
 & BONANZA 1023-5D2DS  
 LOCATED IN SECTION 5, T10S, R23E,  
 S.L.B.&M., UINTAH COUNTY, UTAH.



**CONSULTING, LLC**  
 371 Coffeen Avenue  
 Sheridan WY 82801  
 Phone 307-674-0609  
 Fax 307-674-0182

**TIMBERLINE** (435) 789-1365  
 ENGINEERING & LAND SURVEYING, INC.  
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 03-08-10	PHOTOS TAKEN BY: M.S.B.	SHEET NO: <b>10</b>
DATE DRAWN: 03-09-10	DRAWN BY: E.M.S.	
Date Last Revised: 05-28-10 E.M.S.		10 OF 17



**Legend**

- Proposed Well Location
- Natural Buttes Unit Boundary
- Access Route - Proposed

Distance From Well Pad - BONANZA 1023-5D To Unit Boundary: ±5,400ft

**Kerr-McGee Oil & Gas Onshore, LP**  
 1099 18th Street, Denver, Colorado 80202

**WELL PAD - BONANZA 1023-5D**

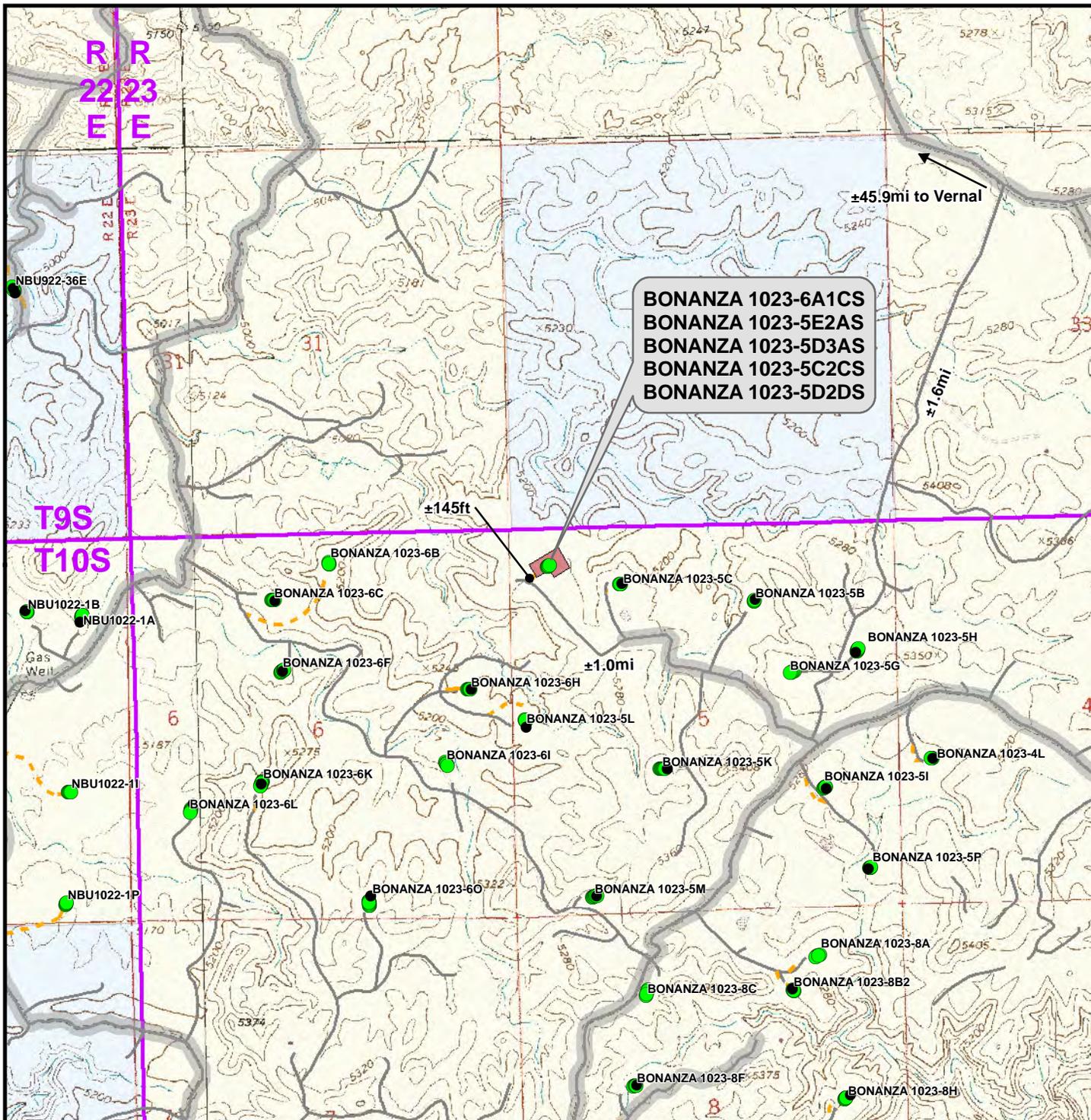
**TOPO A**  
 BONANZA 1023-6A1CS, BONANZA 1023-5E2AS,  
 BONANZA 1023-5D3AS, BONANZA 1023-5C2CS &  
 BONANZA 1023-5D2DS  
 LOCATED IN SECTION 5, T10S, R23E  
 S.L.B.&M., UINTAH COUNTY, UTAH



**CONSULTING, LLC**  
 371 Coffeen Avenue  
 Sheridan, WY 82801  
 Phone (307) 674-0609  
 Fax (307) 674-0182



Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 29 Mar 2010	<b>11</b>
Revised: TL	Date: 25 June 2010	



**Legend**

- Well - Proposed
- Well - Existing
- Well Pad
- Road - Proposed
- Road - Existing
- County Road
- Bureau of Land Management
- Indian Reservation
- State
- Private

Total Proposed Road Length: ±145ft

**Kerr-McGee Oil & Gas Onshore, LP**  
1099 18th Street, Denver, Colorado 80202

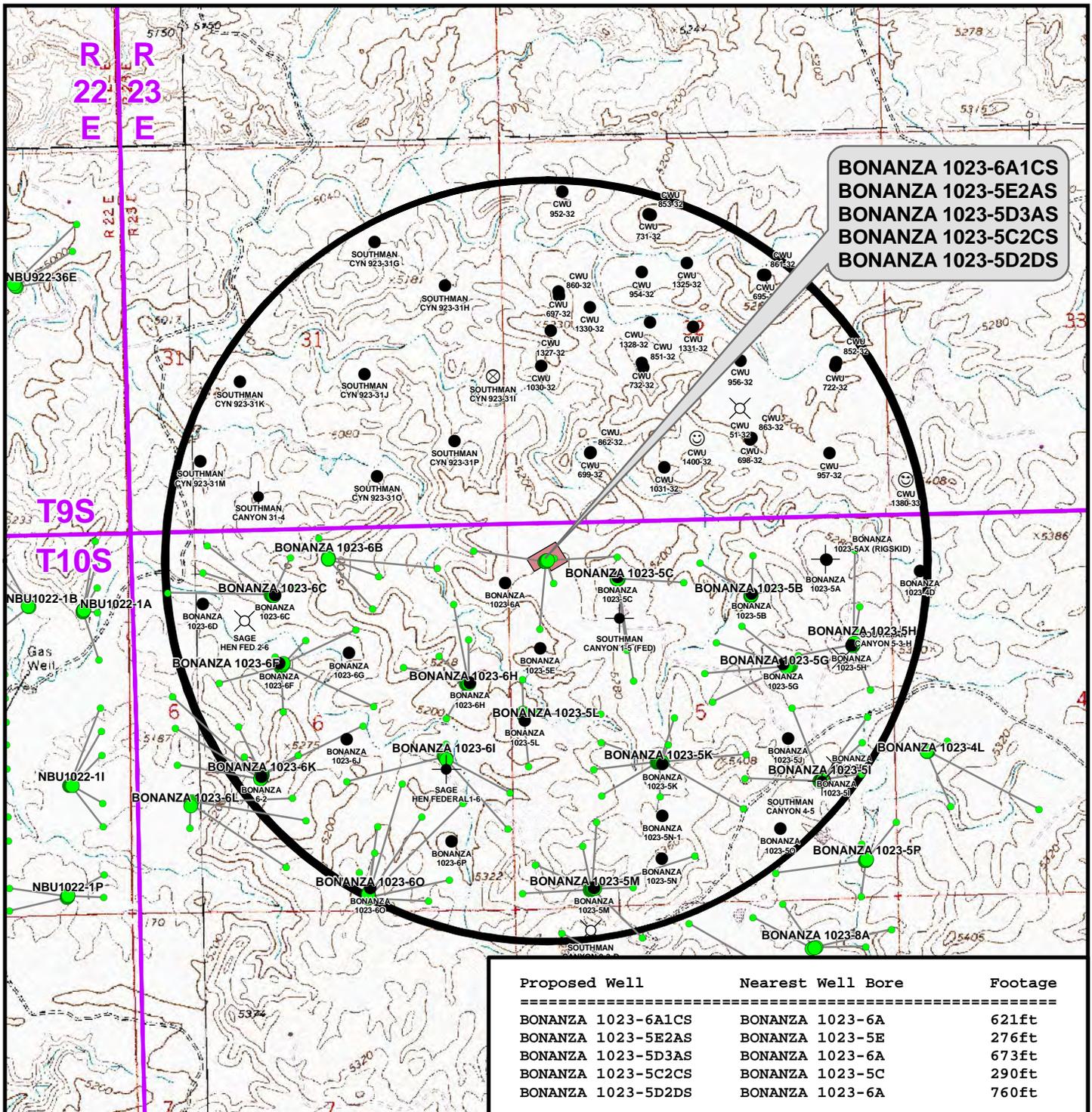
**WELL PAD - BONANZA 1023-5D**

**TOPO B**  
BONANZA 1023-6A1CS, BONANZA 1023-5E2AS,  
BONANZA 1023-5D3AS, BONANZA 1023-5C2CS &  
BONANZA 1023-5D2DS  
LOCATED IN SECTION 5, T10S, R23E  
S.L.B.&M., UTAH COUNTY, UTAH

**609**  
CONSULTING, LLC  
371 Coffeen Avenue  
Sheridan, WY 82801  
Phone (307) 674-0609  
Fax (307) 674-0182



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: <b>12</b> of 17
Drawn: CPS	Date: 29 Mar 2010	
Revised: TL	Date: 25 June 2010	



Proposed Well	Nearest Well Bore	Footage
BONANZA 1023-6A1CS	BONANZA 1023-6A	621ft
BONANZA 1023-5E2AS	BONANZA 1023-5E	276ft
BONANZA 1023-5D3AS	BONANZA 1023-6A	673ft
BONANZA 1023-5C2CS	BONANZA 1023-5C	290ft
BONANZA 1023-5D2DS	BONANZA 1023-6A	760ft

**Legend**

- Well - Proposed
- Bottom Hole - Proposed
- Well Path
- Well Pad
- Well - 1 Mile Radius

Well locations derived from State of Utah, Dept. of Natural Resources, Division of Oil, Gas and Mining

- Producing
- Temporarily-Abandoned
- Shut-In
- Plugged and Abandoned
- Location Abandoned
- Dry hole marker, buried
- Returned APD (Unapproved)
- Active
- Spudded (Drilling commenced; Not yet completed)
- Approved permit (APD); not yet spudded
- New Permit (Not yet approved or drilled)
- Inactive
- Drilling Operations Suspended

**Kerr-McGee Oil & Gas Onshore, LP**  
1099 18th Street, Denver, Colorado 80202

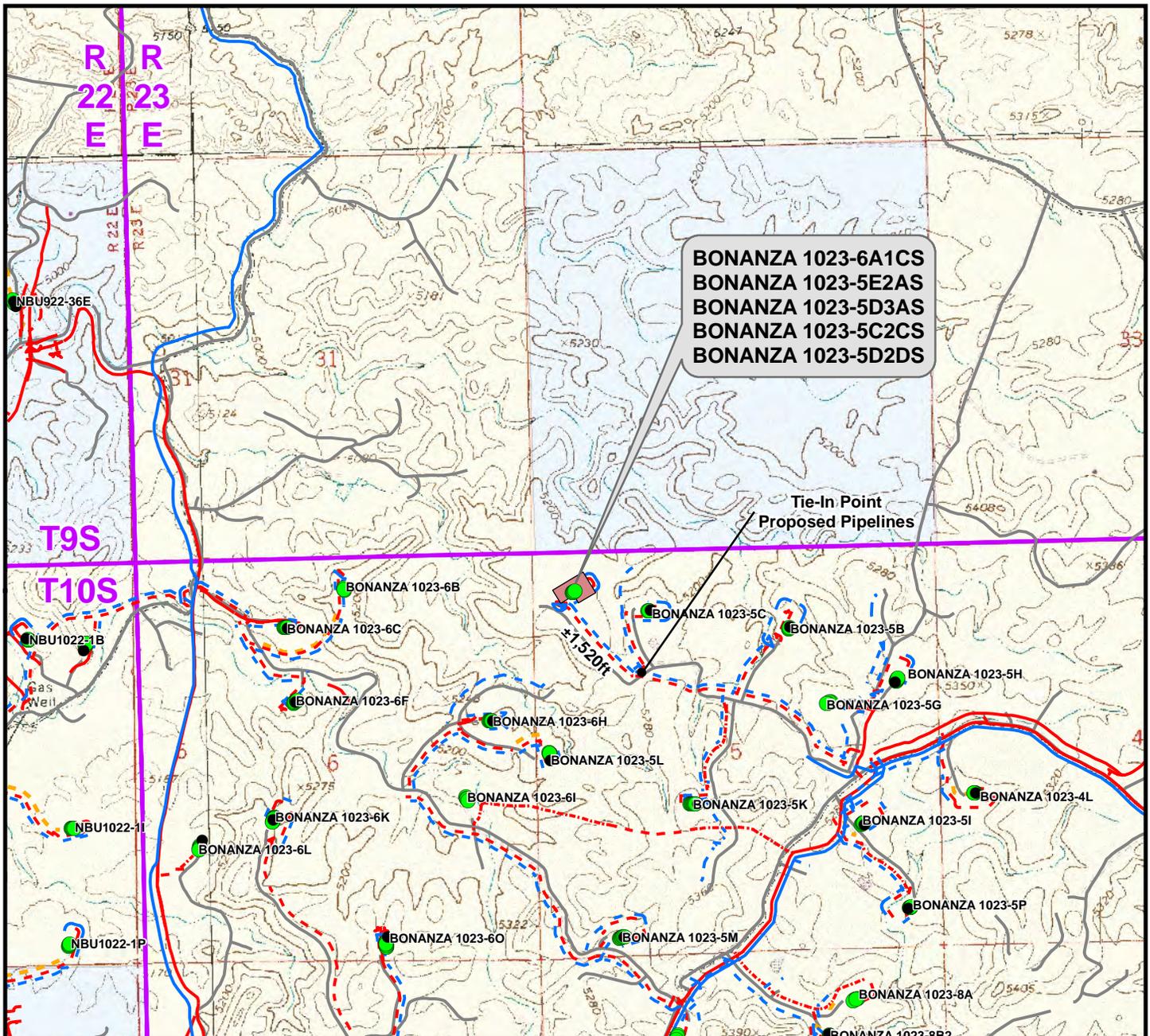
**WELL PAD - BONANZA 1023-5D**

**TOPO C**  
BONANZA 1023-6A1CS, BONANZA 1023-5E2AS,  
BONANZA 1023-5D3AS, BONANZA 1023-5C2CS &  
BONANZA 1023-5D2DS  
LOCATED IN SECTION 5, T10S, R23E  
S.L.B.&M., UTAH COUNTY, UTAH

**609**  
CONSULTING, LLC  
371 Coffeen Avenue  
Sheridan, WY 82801  
Phone (307) 674-0609  
Fax (307) 674-0182



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: <b>13</b>
Drawn: CPS	Date: 29 Mar 2010	13 of 17
Revised: TL	Date: 25 June 2010	



Proposed Liquid Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±570ft
Proposed 6" (Edge of Pad to 5C Intersection)	±1,520ft
<b>TOTAL PROPOSED LIQUID PIPELINE =</b>	<b>± 2,090ft</b>

Proposed Gas Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±570ft
Proposed 6" (Edge of Pad to 5C Intersection)	±1,520ft
<b>TOTAL PROPOSED GAS PIPELINE =</b>	<b>±2,090ft</b>

**Legend**

- Well - Proposed      - - - Gas Pipeline - Proposed      - - - Liquid Pipeline - Proposed      - - - Road - Proposed      Bureau of Land Management
- Well - Existing      - - - Gas Pipeline - To Be Upgraded      - - - Liquid Pipeline - To Be Upgraded      - - - Road - Existing      Indian Reservation
- Well Pad      - - - Gas Pipeline - Existing      - - - Liquid Pipeline - Existing

**Kerr-McGee Oil & Gas Onshore, LP**  
1099 18th Street, Denver, Colorado 80202

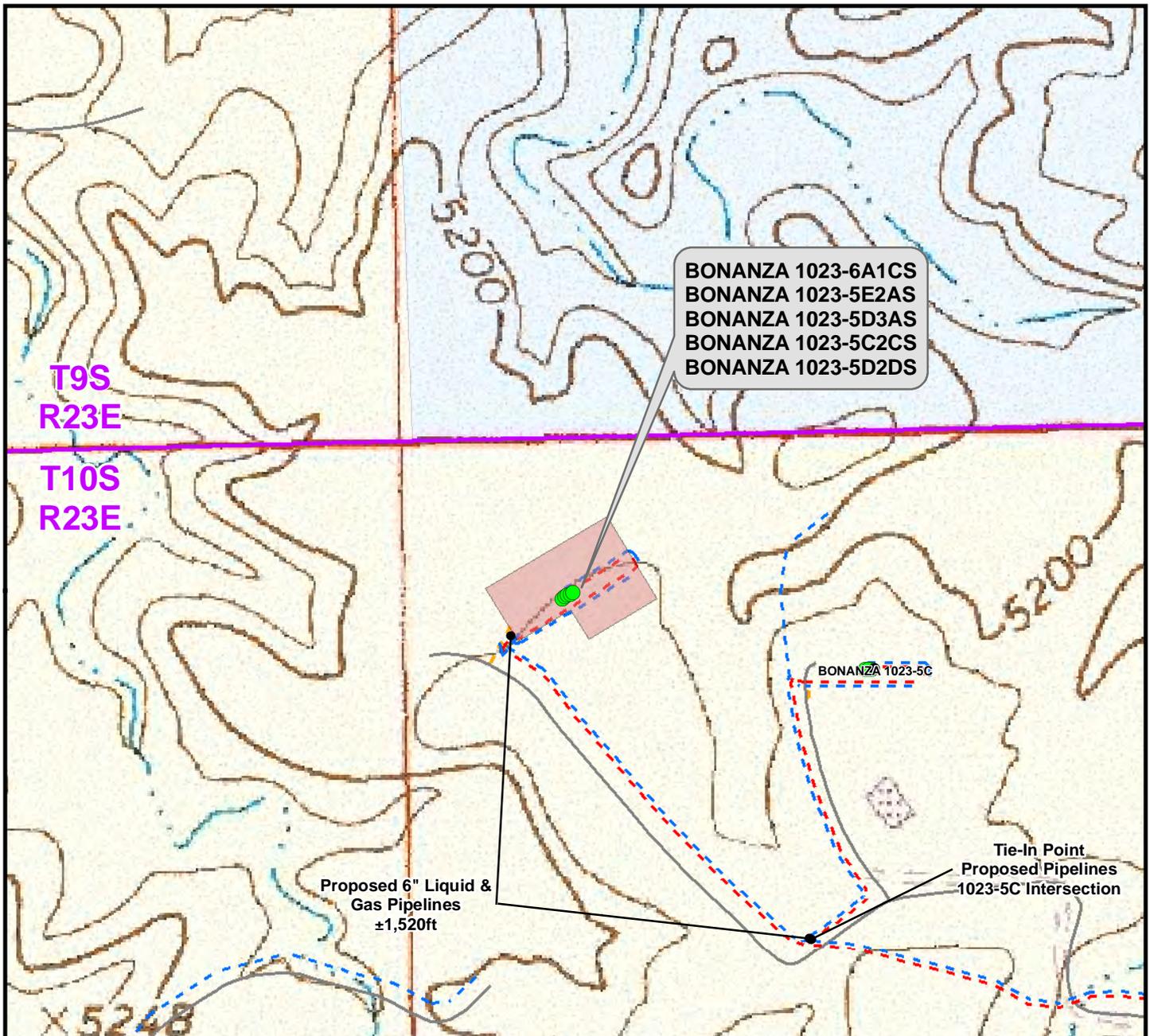
**WELL PAD - BONANZA 1023-5D**

**TOPO D**  
BONANZA 1023-6A1CS, BONANZA 1023-5E2AS,  
BONANZA 1023-5D3AS, BONANZA 1023-5C2CS &  
BONANZA 1023-5D2DS  
LOCATED IN SECTION 5, T10S, R23E  
S.L.B.&M., UINTAH COUNTY, UTAH

**609**  
CONSULTING, LLC  
371 Coffeen Avenue  
Sheridan, WY 82801  
Phone (307) 674-0609  
Fax (307) 674-0182



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 29 Mar 2010	<b>14</b>
Revised: TL	Date: 25 June 2010	



Proposed 6" Liquid & Gas Pipelines  
±1,520ft

Tie-In Point  
Proposed Pipelines  
1023-5C Intersection

Proposed Liquid Pipeline	Length	Proposed Gas Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±570ft	Proposed 6" (First Meter House to Edge of Pad)	±570ft
Proposed 6" (Edge of Pad to 5C Intersection)	±1,520ft	Proposed 6" (Edge of Pad to 5C Intersection)	±1,520ft
<b>TOTAL PROPOSED LIQUID PIPELINE =</b>	<b>± 2,090ft</b>	<b>TOTAL PROPOSED GAS PIPELINE =</b>	<b>±2,090ft</b>

**Legend**

- Well - Proposed
- - - Gas Pipeline - Proposed
- - - Liquid Pipeline - Proposed
- - - Road - Proposed
- Bureau of Land Management
- Well - Existing
- - - Gas Pipeline - To Be Upgraded
- - - Liquid Pipeline - To Be Upgraded
- - - Road - Existing
- Indian Reservation
- Well Pad
- - - Gas Pipeline - Existing
- - - Liquid Pipeline - Existing
- State
- Private

**Kerr-McGee Oil & Gas Onshore, LP**  
1099 18th Street, Denver, Colorado 80202

**WELL PAD - BONANZA 1023-5D**

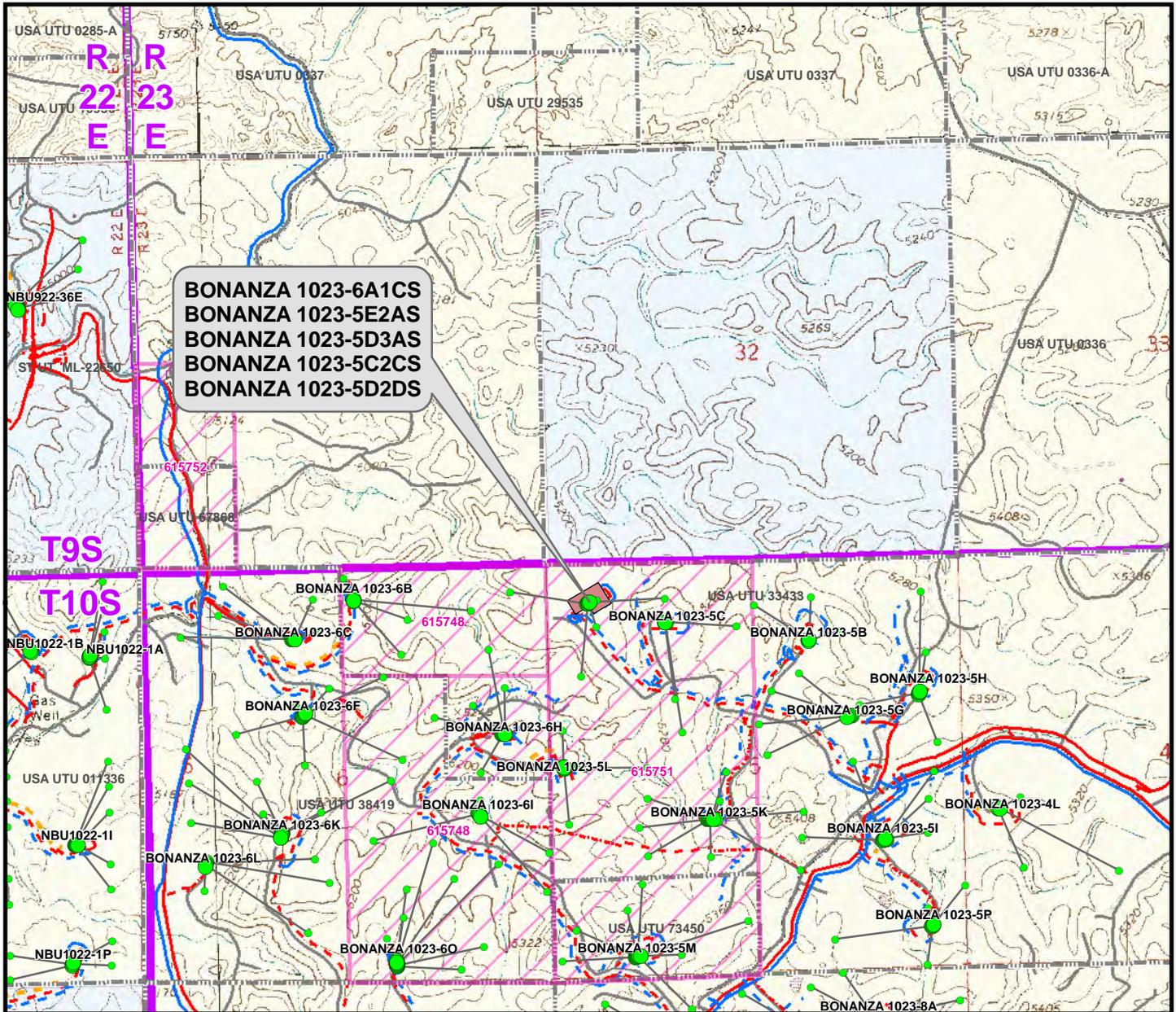
**TOPO D (PAD & PIPELINE DETAIL)**  
BONANZA 1023-6A1CS, BONANZA 1023-5E2AS,  
BONANZA 1023-5D3AS, BONANZA 1023-5C2CS &  
BONANZA 1023-5D2DS  
LOCATED IN SECTION 5, T10S, R23E  
S.L.B.&M., UINTAH COUNTY, UTAH

**609**  
CONSULTING, LLC  
371 Coffeen Avenue  
Sheridan, WY 82801  
Phone (307) 674-0609  
Fax (307) 674-0182



Scale: 1" = 500ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 29 Mar 2010	<b>15</b>
Revised: TL	Date: 25 June 2010	

15 of 17



**BONANZA 1023-6A1CS  
 BONANZA 1023-5E2AS  
 BONANZA 1023-5D3AS  
 BONANZA 1023-5C2CS  
 BONANZA 1023-5D2DS**

Proposed Well	Distance to Nearest CA Boundary
BONANZA 1023-6A1CS	361ft
BONANZA 1023-5E2AS	384ft
BONANZA 1023-5D3AS	591ft
BONANZA 1023-5C2CS	485ft
BONANZA 1023-5D2DS	485ft

Proposed Well	Distance To Nearest Lease Boundary
BONANZA 1023-6A1CS	621ft
BONANZA 1023-5E2AS	1,257ft
BONANZA 1023-5D3AS	840ft
BONANZA 1023-5C2CS	485ft
BONANZA 1023-5D2DS	485ft

**Legend**

- Well - Proposed (Green circle)
- Bottom Hole - Proposed (Green dot)
- Well Path (Black line)
- Well Pad (Red shaded area)
- CA Agreement (Pink shaded area)
- Lease Boundary (Black dashed line)
- Gas Pipeline - Proposed (Red dashed line)
- Gas Pipeline - To Be Upgraded (Red dotted line)
- Gas Pipeline - Existing (Red solid line)
- Liquid Pipeline - Proposed (Blue dashed line)
- Liquid Pipeline - To Be Upgraded (Blue dotted line)
- Liquid Pipeline - Existing (Blue solid line)
- Road - Proposed (Orange dashed line)
- Road - Existing (Grey solid line)
- Bureau of Land Management (Yellow shaded area)
- Indian Reservation (Red shaded area)
- State (Light blue shaded area)
- Private (White shaded area)

**Kerr-McGee Oil & Gas Onshore, LP**  
 1099 18th Street, Denver, Colorado 80202

**WELL PAD - BONANZA 1023-5D**

**TOPO E**  
 BONANZA 1023-6A1CS, BONANZA 1023-5E2AS,  
 BONANZA 1023-5D3AS, BONANZA 1023-5C2CS &  
 BONANZA 1023-5D2DS  
 LOCATED IN SECTION 5, T10S, R23E  
 S.L.B.&M., UTAH COUNTY, UTAH

**609**  
 CONSULTING, LLC  
 371 Coffeen Avenue  
 Sheridan, WY 82801  
 Phone (307) 674-0609  
 Fax (307) 674-0182



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 29 Mar 2010	<b>16</b> 16 of 17
Revised: TL	Date: 25 June 2010	

**Kerr-McGee Oil & Gas Onshore, LP  
WELL PAD – BONANZA 1023-5D  
WELLS – BONANZA 1023-6A1CS, BONANZA 1023-5E2AS,  
BONANZA 1023-5D3AS, BONANZA 1023-5C2CS &  
BONANZA 1023-5D2DS  
Section 5, T10S, R23E, S.L.B.&M.**

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah proceed in an easterly then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45; exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 14.4 miles to the intersection of the Chipeta Wells Road (County B Road 3410) which road intersection is approximately 400 feet northeast of the Mountain Fuel Bridge, at the White River. Exit left and proceed in a southeasterly direction along the Chipeta Wells Road approximately 6.7 miles to a Class D County Road to the right. Exit right and proceed in a southeasterly then southerly direction along the Class D Road approximately 1.3 miles to a second Class D County Road to the right. Exit right and proceed in a southwesterly direction along second Class D Road approximately 1.6 miles to a third Class D County Road to the right. Exit right and proceed in a northwesterly direction along third Class D Road approximately 1.0 miles to a proposed access road to the right. Exit right and follow the road flags in a northeasterly direction approximately 145 feet to the proposed well pad.

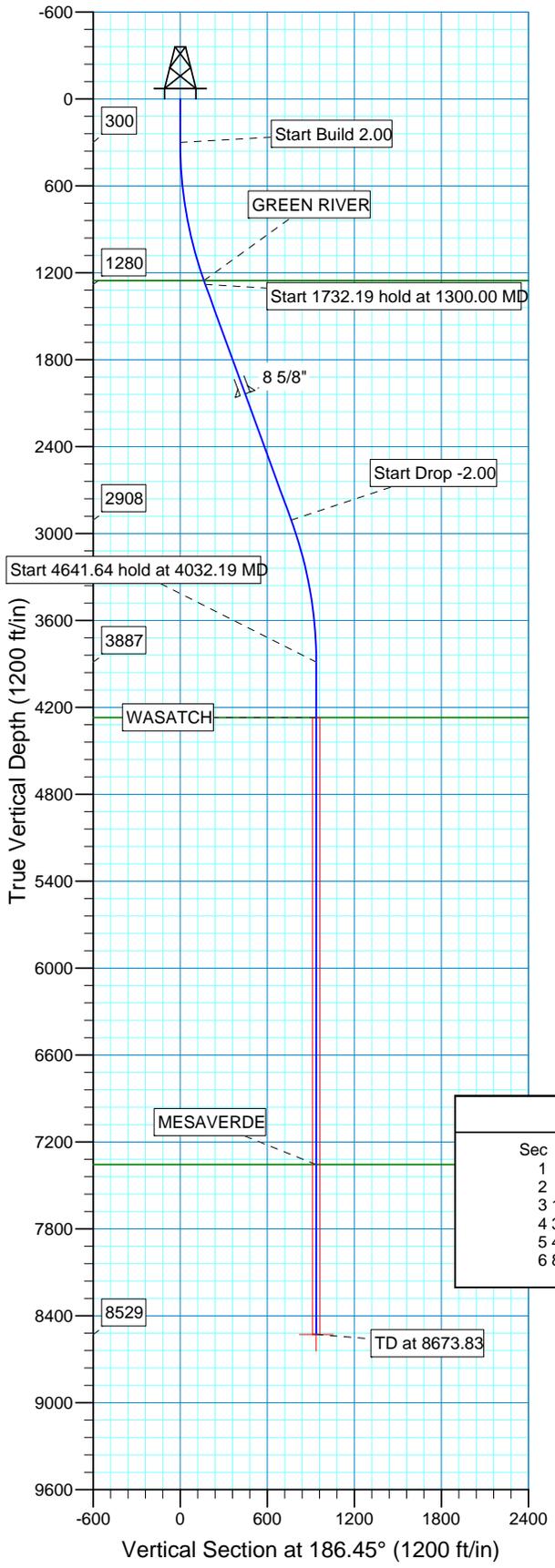
Total distance from Vernal, Utah to the proposed well location is approximately 48.5 miles in a southerly direction.



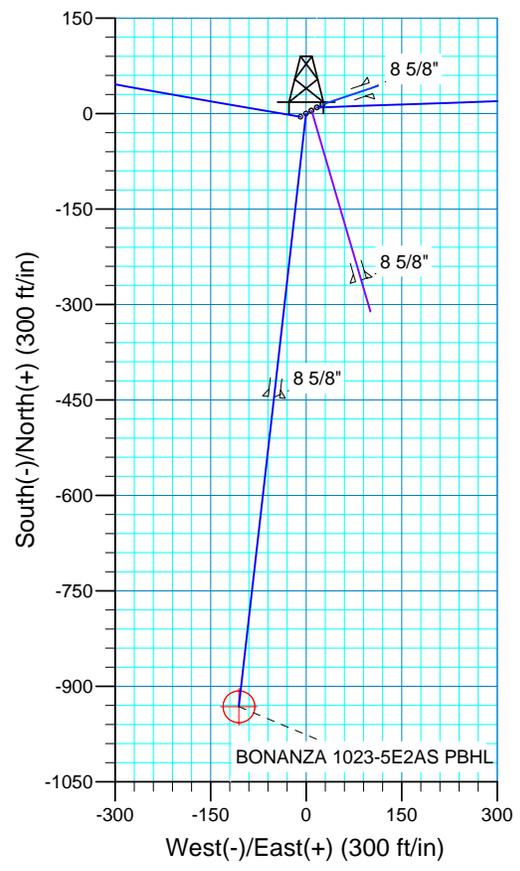
Kerr McGee Oil and Gas Onshore LP

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
PBHL	8529.00	-932.04	-105.3614523458.10	2100387.8639	2100476.8639	58° 52.558' N	109° 21' 29.074" W	Circle (Radius: 25.00)	

**T M**  
 Azimuths to True North  
 Magnetic North: 11.13°  
 Magnetic Field  
 Strength: 52427.3snT  
 Dip Angle: 65.90°  
 Date: 07/22/2010  
 Model: IGRF2010



WELL DETAILS: Bonanza 1023-5E2AS						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	14524391.92	2100476.03	39° 59' 1.770" N	109° 21' 27.720" W	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED) 5239.00



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
3	1300.00	20.00	186.45	1279.82	-171.67	-19.41	2.00	186.45	172.77	
4	3032.19	20.00	186.45	2907.54	-760.37	-85.95	0.00	0.00	765.21	
5	4032.19	0.00	0.00	3887.36	-932.04	-105.36	2.00	180.00	937.98	
6	8673.83	0.00	0.00	8529.00	-932.04	-105.36	0.00	0.00	937.98	BONANZA 1023-5E2AS PBHL

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1254.00	1272.58	GREEN RIVER
4270.00	4414.83	WASATCH
7356.00	7500.83	MESAVERDE

PROJECT DETAILS: Uintah County, UT UTM12	
Geodetic System:	Universal Transverse Mercator (US Survey Feet)
Datum:	NAD 1927 - Western US
Ellipsoid:	Clarke 1866
Zone:	Zone 12N (114 W to 108 W)
Location:	SEC 5 T10S R23W
System Datum:	Mean Sea Level
Local North:	True

Plan: PLAN #1 (Bonanza 1023-5E2AS/OH)  
 Created By: Robert H. Scott Date: 9:47, July 22 2010



# **Kerr McGee Oil and Gas Onshore LP**

**Uintah County, UT UTM12  
Bonanza 1023-5D Pad  
Bonanza 1023-5E2AS  
OH**

**Plan: PLAN #1**

## **Standard Planning Report**

**22 July, 2010**





SDI  
Planning Report



<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Bonanza 1023-5E2AS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-5D Pad	<b>North Reference:</b>	True
<b>Well:</b>	Bonanza 1023-5E2AS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

<b>Project</b>	Uintah County, UT UTM12		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Fee	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 - Western US		
<b>Map Zone:</b>	Zone 12N (114 W to 108 W)		

<b>Site</b>	Bonanza 1023-5D Pad, SEC 5 T10S R23W				
<b>Site Position:</b>		<b>Northing:</b>	14,524,406.97 ft	<b>Latitude:</b>	39° 59' 1.914 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,100,501.82 ft	<b>Longitude:</b>	109° 21' 27.385 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	in	<b>Grid Convergence:</b>	1.06 °

<b>Well</b>	Bonanza 1023-5E2AS, 529' FNL 490' FWL					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	14,524,391.92 ft	<b>Latitude:</b>	39° 59' 1.770 N
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,100,476.03 ft	<b>Longitude:</b>	109° 21' 27.720 W
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,239.00 ft

<b>Wellbore</b>	OH				
-----------------	----	--	--	--	--

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	07/22/2010	11.13	65.91	52,427

<b>Design</b>	PLAN #1				
---------------	---------	--	--	--	--

<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00	

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	186.45

<b>Plan Sections</b>										
----------------------	--	--	--	--	--	--	--	--	--	--

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	20.00	186.45	1,279.82	-171.67	-19.41	2.00	2.00	0.00	186.45	
3,032.19	20.00	186.45	2,907.54	-760.37	-85.95	0.00	0.00	0.00	0.00	
4,032.19	0.00	0.00	3,887.36	-932.04	-105.36	2.00	-2.00	0.00	180.00	
8,673.83	0.00	0.00	8,529.00	-932.04	-105.36	0.00	0.00	0.00	0.00	BONANZA 1023-5E



<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Bonanza 1023-5E2AS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-5D Pad	<b>North Reference:</b>	True
<b>Well:</b>	Bonanza 1023-5E2AS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

**Planned Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Start Build 2.00</b>										
400.00	2.00	186.45	399.98	-1.73	-0.20	1.75	2.00	2.00	0.00	
500.00	4.00	186.45	499.84	-6.93	-0.78	6.98	2.00	2.00	0.00	
600.00	6.00	186.45	599.45	-15.59	-1.76	15.69	2.00	2.00	0.00	
700.00	8.00	186.45	698.70	-27.70	-3.13	27.88	2.00	2.00	0.00	
800.00	10.00	186.45	797.47	-43.25	-4.89	43.52	2.00	2.00	0.00	
900.00	12.00	186.45	895.62	-62.21	-7.03	62.60	2.00	2.00	0.00	
1,000.00	14.00	186.45	993.06	-84.56	-9.56	85.10	2.00	2.00	0.00	
1,100.00	16.00	186.45	1,089.64	-110.27	-12.47	110.98	2.00	2.00	0.00	
1,200.00	18.00	186.45	1,185.27	-139.33	-15.75	140.21	2.00	2.00	0.00	
1,272.58	19.45	186.45	1,254.00	-162.48	-18.37	163.51	2.00	2.00	0.00	
<b>GREEN RIVER</b>										
1,300.00	20.00	186.45	1,279.82	-171.67	-19.41	172.77	2.00	2.00	0.00	
<b>Start 1732.19 hold at 1300.00 MD</b>										
1,400.00	20.00	186.45	1,373.78	-205.66	-23.25	206.97	0.00	0.00	0.00	
1,500.00	20.00	186.45	1,467.75	-239.65	-27.09	241.17	0.00	0.00	0.00	
1,600.00	20.00	186.45	1,561.72	-273.63	-30.93	275.37	0.00	0.00	0.00	
1,700.00	20.00	186.45	1,655.69	-307.62	-34.77	309.58	0.00	0.00	0.00	
1,800.00	20.00	186.45	1,749.66	-341.60	-38.61	343.78	0.00	0.00	0.00	
1,900.00	20.00	186.45	1,843.63	-375.59	-42.46	377.98	0.00	0.00	0.00	
2,000.00	20.00	186.45	1,937.60	-409.57	-46.30	412.18	0.00	0.00	0.00	
2,100.00	20.00	186.45	2,031.57	-443.56	-50.14	446.38	0.00	0.00	0.00	
2,105.78	20.00	186.45	2,037.00	-445.52	-50.36	448.36	0.00	0.00	0.00	
<b>8 5/8"</b>										
2,200.00	20.00	186.45	2,125.54	-477.54	-53.98	480.59	0.00	0.00	0.00	
2,300.00	20.00	186.45	2,219.51	-511.53	-57.82	514.79	0.00	0.00	0.00	
2,400.00	20.00	186.45	2,313.48	-545.52	-61.66	548.99	0.00	0.00	0.00	
2,500.00	20.00	186.45	2,407.45	-579.50	-65.51	583.19	0.00	0.00	0.00	
2,600.00	20.00	186.45	2,501.42	-613.49	-69.35	617.39	0.00	0.00	0.00	
2,700.00	20.00	186.45	2,595.39	-647.47	-73.19	651.60	0.00	0.00	0.00	
2,800.00	20.00	186.45	2,689.35	-681.46	-77.03	685.80	0.00	0.00	0.00	
2,900.00	20.00	186.45	2,783.32	-715.44	-80.87	720.00	0.00	0.00	0.00	
3,000.00	20.00	186.45	2,877.29	-749.43	-84.72	754.20	0.00	0.00	0.00	
3,032.19	20.00	186.45	2,907.54	-760.37	-85.95	765.21	0.00	0.00	0.00	
<b>Start Drop -2.00</b>										
3,100.00	18.64	186.45	2,971.53	-782.66	-88.47	787.65	2.00	-2.00	0.00	
3,200.00	16.64	186.45	3,066.82	-812.78	-91.88	817.96	2.00	-2.00	0.00	
3,300.00	14.64	186.45	3,163.11	-839.57	-94.91	844.92	2.00	-2.00	0.00	
3,400.00	12.64	186.45	3,260.29	-863.01	-97.55	868.51	2.00	-2.00	0.00	
3,500.00	10.64	186.45	3,358.22	-883.07	-99.82	888.69	2.00	-2.00	0.00	
3,600.00	8.64	186.45	3,456.80	-899.71	-101.70	905.44	2.00	-2.00	0.00	
3,700.00	6.64	186.45	3,555.91	-912.93	-103.20	918.74	2.00	-2.00	0.00	
3,800.00	4.64	186.45	3,655.42	-922.70	-104.30	928.57	2.00	-2.00	0.00	
3,900.00	2.64	186.45	3,755.21	-929.01	-105.02	934.93	2.00	-2.00	0.00	
4,000.00	0.64	186.45	3,855.17	-931.86	-105.34	937.80	2.00	-2.00	0.00	
4,032.19	0.00	0.00	3,887.36	-932.04	-105.36	937.98	2.00	-2.00	0.00	
<b>Start 4641.64 hold at 4032.19 MD</b>										
4,100.00	0.00	0.00	3,955.17	-932.04	-105.36	937.98	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,055.17	-932.04	-105.36	937.98	0.00	0.00	0.00	



<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Bonanza 1023-5E2AS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-5D Pad	<b>North Reference:</b>	True
<b>Well:</b>	Bonanza 1023-5E2AS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

**Planned Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,300.00	0.00	0.00	4,155.17	-932.04	-105.36	937.98	0.00	0.00	0.00
4,400.00	0.00	0.00	4,255.17	-932.04	-105.36	937.98	0.00	0.00	0.00
4,414.83	0.00	0.00	4,270.00	-932.04	-105.36	937.98	0.00	0.00	0.00
<b>WASATCH</b>									
4,500.00	0.00	0.00	4,355.17	-932.04	-105.36	937.98	0.00	0.00	0.00
4,600.00	0.00	0.00	4,455.17	-932.04	-105.36	937.98	0.00	0.00	0.00
4,700.00	0.00	0.00	4,555.17	-932.04	-105.36	937.98	0.00	0.00	0.00
4,800.00	0.00	0.00	4,655.17	-932.04	-105.36	937.98	0.00	0.00	0.00
4,900.00	0.00	0.00	4,755.17	-932.04	-105.36	937.98	0.00	0.00	0.00
5,000.00	0.00	0.00	4,855.17	-932.04	-105.36	937.98	0.00	0.00	0.00
5,100.00	0.00	0.00	4,955.17	-932.04	-105.36	937.98	0.00	0.00	0.00
5,200.00	0.00	0.00	5,055.17	-932.04	-105.36	937.98	0.00	0.00	0.00
5,300.00	0.00	0.00	5,155.17	-932.04	-105.36	937.98	0.00	0.00	0.00
5,400.00	0.00	0.00	5,255.17	-932.04	-105.36	937.98	0.00	0.00	0.00
5,500.00	0.00	0.00	5,355.17	-932.04	-105.36	937.98	0.00	0.00	0.00
5,600.00	0.00	0.00	5,455.17	-932.04	-105.36	937.98	0.00	0.00	0.00
5,700.00	0.00	0.00	5,555.17	-932.04	-105.36	937.98	0.00	0.00	0.00
5,800.00	0.00	0.00	5,655.17	-932.04	-105.36	937.98	0.00	0.00	0.00
5,900.00	0.00	0.00	5,755.17	-932.04	-105.36	937.98	0.00	0.00	0.00
6,000.00	0.00	0.00	5,855.17	-932.04	-105.36	937.98	0.00	0.00	0.00
6,100.00	0.00	0.00	5,955.17	-932.04	-105.36	937.98	0.00	0.00	0.00
6,200.00	0.00	0.00	6,055.17	-932.04	-105.36	937.98	0.00	0.00	0.00
6,300.00	0.00	0.00	6,155.17	-932.04	-105.36	937.98	0.00	0.00	0.00
6,400.00	0.00	0.00	6,255.17	-932.04	-105.36	937.98	0.00	0.00	0.00
6,500.00	0.00	0.00	6,355.17	-932.04	-105.36	937.98	0.00	0.00	0.00
6,600.00	0.00	0.00	6,455.17	-932.04	-105.36	937.98	0.00	0.00	0.00
6,700.00	0.00	0.00	6,555.17	-932.04	-105.36	937.98	0.00	0.00	0.00
6,800.00	0.00	0.00	6,655.17	-932.04	-105.36	937.98	0.00	0.00	0.00
6,900.00	0.00	0.00	6,755.17	-932.04	-105.36	937.98	0.00	0.00	0.00
7,000.00	0.00	0.00	6,855.17	-932.04	-105.36	937.98	0.00	0.00	0.00
7,100.00	0.00	0.00	6,955.17	-932.04	-105.36	937.98	0.00	0.00	0.00
7,200.00	0.00	0.00	7,055.17	-932.04	-105.36	937.98	0.00	0.00	0.00
7,300.00	0.00	0.00	7,155.17	-932.04	-105.36	937.98	0.00	0.00	0.00
7,400.00	0.00	0.00	7,255.17	-932.04	-105.36	937.98	0.00	0.00	0.00
7,500.00	0.00	0.00	7,355.17	-932.04	-105.36	937.98	0.00	0.00	0.00
7,500.83	0.00	0.00	7,356.00	-932.04	-105.36	937.98	0.00	0.00	0.00
<b>MESAVERDE</b>									
7,600.00	0.00	0.00	7,455.17	-932.04	-105.36	937.98	0.00	0.00	0.00
7,700.00	0.00	0.00	7,555.17	-932.04	-105.36	937.98	0.00	0.00	0.00
7,800.00	0.00	0.00	7,655.17	-932.04	-105.36	937.98	0.00	0.00	0.00
7,900.00	0.00	0.00	7,755.17	-932.04	-105.36	937.98	0.00	0.00	0.00
8,000.00	0.00	0.00	7,855.17	-932.04	-105.36	937.98	0.00	0.00	0.00
8,100.00	0.00	0.00	7,955.17	-932.04	-105.36	937.98	0.00	0.00	0.00
8,200.00	0.00	0.00	8,055.17	-932.04	-105.36	937.98	0.00	0.00	0.00
8,300.00	0.00	0.00	8,155.17	-932.04	-105.36	937.98	0.00	0.00	0.00
8,400.00	0.00	0.00	8,255.17	-932.04	-105.36	937.98	0.00	0.00	0.00
8,500.00	0.00	0.00	8,355.17	-932.04	-105.36	937.98	0.00	0.00	0.00
8,600.00	0.00	0.00	8,455.17	-932.04	-105.36	937.98	0.00	0.00	0.00
8,673.83	0.00	0.00	8,529.00	-932.04	-105.36	937.98	0.00	0.00	0.00

**TD at 8673.83 - BONANZA 1023-5E2AS PBHL**



<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Bonanza 1023-5E2AS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-5D Pad	<b>North Reference:</b>	True
<b>Well:</b>	Bonanza 1023-5E2AS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

Targets										
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
BONANZA 1023-5E2/		0.00	0.00	8,529.00	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
- plan hits target center - Circle (radius 25.00)										

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,105.78	2,037.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
7,500.83	7,356.00	MESAVERDE		0.00	
4,414.83	4,270.00	WASATCH		0.00	
1,272.58	1,254.00	GREEN RIVER		0.00	

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.00	300.00	0.00	0.00	Start Build 2.00
1,300.00	1,279.82	-171.67	-19.41	Start 1732.19 hold at 1300.00 MD
3,032.19	2,907.54	-760.37	-85.95	Start Drop -2.00
4,032.19	3,887.36	-932.04	-105.36	Start 4641.64 hold at 4032.19 MD
8,673.83	8,529.00	-932.04	-105.36	TD at 8673.83



# **Kerr McGee Oil and Gas Onshore LP**

**Uintah County, UT UTM12  
Bonanza 1023-5D Pad  
Bonanza 1023-5E2AS  
OH**

**Plan: PLAN #1**

## **Standard Planning Report - Geographic**

**22 July, 2010**





SDI  
Planning Report - Geographic



<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Bonanza 1023-5E2AS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-5D Pad	<b>North Reference:</b>	True
<b>Well:</b>	Bonanza 1023-5E2AS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

<b>Project</b>	Uintah County, UT UTM12		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Fee	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 - Western US		
<b>Map Zone:</b>	Zone 12N (114 W to 108 W)		

<b>Site</b>	Bonanza 1023-5D Pad, SEC 5 T10S R23W				
<b>Site Position:</b>		<b>Northing:</b>	14,524,406.97 ft	<b>Latitude:</b>	39° 59' 1.914 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,100,501.82 ft	<b>Longitude:</b>	109° 21' 27.385 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	in	<b>Grid Convergence:</b>	1.06 °

<b>Well</b>	Bonanza 1023-5E2AS, 529' FNL 490' FWL					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	14,524,391.92 ft	<b>Latitude:</b>	39° 59' 1.770 N
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,100,476.03 ft	<b>Longitude:</b>	109° 21' 27.720 W
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,239.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	07/22/2010	11.13	65.91	52,427

<b>Design</b>	PLAN #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	186.45

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	20.00	186.45	1,279.82	-171.67	-19.41	2.00	2.00	0.00	186.45	
3,032.19	20.00	186.45	2,907.54	-760.37	-85.95	0.00	0.00	0.00	0.00	
4,032.19	0.00	0.00	3,887.36	-932.04	-105.36	2.00	-2.00	0.00	180.00	
8,673.83	0.00	0.00	8,529.00	-932.04	-105.36	0.00	0.00	0.00	0.00	BONANZA 1023-5E



<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Bonanza 1023-5E2AS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-5D Pad	<b>North Reference:</b>	True
<b>Well:</b>	Bonanza 1023-5E2AS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

**Planned Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,524,391.92	2,100,476.03	39° 59' 1.770 N	109° 21' 27.720 W
100.00	0.00	0.00	100.00	0.00	0.00	14,524,391.92	2,100,476.03	39° 59' 1.770 N	109° 21' 27.720 W
200.00	0.00	0.00	200.00	0.00	0.00	14,524,391.92	2,100,476.03	39° 59' 1.770 N	109° 21' 27.720 W
300.00	0.00	0.00	300.00	0.00	0.00	14,524,391.92	2,100,476.03	39° 59' 1.770 N	109° 21' 27.720 W
<b>Start Build 2.00</b>									
400.00	2.00	186.45	399.98	-1.73	-0.20	14,524,390.19	2,100,475.87	39° 59' 1.753 N	109° 21' 27.723 W
500.00	4.00	186.45	499.84	-6.93	-0.78	14,524,384.98	2,100,475.38	39° 59' 1.701 N	109° 21' 27.730 W
600.00	6.00	186.45	599.45	-15.59	-1.76	14,524,376.30	2,100,474.56	39° 59' 1.616 N	109° 21' 27.743 W
700.00	8.00	186.45	698.70	-27.70	-3.13	14,524,364.17	2,100,473.41	39° 59' 1.496 N	109° 21' 27.760 W
800.00	10.00	186.45	797.47	-43.25	-4.89	14,524,348.59	2,100,471.94	39° 59' 1.343 N	109° 21' 27.783 W
900.00	12.00	186.45	895.62	-62.21	-7.03	14,524,329.60	2,100,470.15	39° 59' 1.155 N	109° 21' 27.810 W
1,000.00	14.00	186.45	993.06	-84.56	-9.56	14,524,307.20	2,100,468.04	39° 59' 0.934 N	109° 21' 27.843 W
1,100.00	16.00	186.45	1,089.64	-110.27	-12.47	14,524,281.44	2,100,465.60	39° 59' 0.680 N	109° 21' 27.880 W
1,200.00	18.00	186.45	1,185.27	-139.33	-15.75	14,524,252.33	2,100,462.85	39° 59' 0.393 N	109° 21' 27.922 W
1,272.58	19.45	186.45	1,254.00	-162.48	-18.37	14,524,229.14	2,100,460.66	39° 59' 0.164 N	109° 21' 27.956 W
<b>GREEN RIVER</b>									
1,300.00	20.00	186.45	1,279.82	-171.67	-19.41	14,524,219.92	2,100,459.79	39° 59' 0.073 N	109° 21' 27.969 W
<b>Start 1732.19 hold at 1300.00 MD</b>									
1,400.00	20.00	186.45	1,373.78	-205.66	-23.25	14,524,185.87	2,100,456.58	39° 58' 59.737 N	109° 21' 28.019 W
1,500.00	20.00	186.45	1,467.75	-239.65	-27.09	14,524,151.82	2,100,453.36	39° 58' 59.401 N	109° 21' 28.068 W
1,600.00	20.00	186.45	1,561.72	-273.63	-30.93	14,524,117.77	2,100,450.15	39° 58' 59.065 N	109° 21' 28.117 W
1,700.00	20.00	186.45	1,655.69	-307.62	-34.77	14,524,083.72	2,100,446.93	39° 58' 58.729 N	109° 21' 28.167 W
1,800.00	20.00	186.45	1,749.66	-341.60	-38.61	14,524,049.67	2,100,443.72	39° 58' 58.394 N	109° 21' 28.216 W
1,900.00	20.00	186.45	1,843.63	-375.59	-42.46	14,524,015.62	2,100,440.50	39° 58' 58.058 N	109° 21' 28.265 W
2,000.00	20.00	186.45	1,937.60	-409.57	-46.30	14,523,981.57	2,100,437.29	39° 58' 57.722 N	109° 21' 28.315 W
2,100.00	20.00	186.45	2,031.57	-443.56	-50.14	14,523,947.52	2,100,434.07	39° 58' 57.386 N	109° 21' 28.364 W
2,105.78	20.00	186.45	2,037.00	-445.52	-50.36	14,523,945.55	2,100,433.89	39° 58' 57.366 N	109° 21' 28.367 W
<b>8 5/8"</b>									
2,200.00	20.00	186.45	2,125.54	-477.54	-53.98	14,523,913.47	2,100,430.86	39° 58' 57.050 N	109° 21' 28.414 W
2,300.00	20.00	186.45	2,219.51	-511.53	-57.82	14,523,879.42	2,100,427.64	39° 58' 56.714 N	109° 21' 28.463 W
2,400.00	20.00	186.45	2,313.48	-545.52	-61.66	14,523,845.37	2,100,424.43	39° 58' 56.378 N	109° 21' 28.512 W
2,500.00	20.00	186.45	2,407.45	-579.50	-65.51	14,523,811.31	2,100,421.21	39° 58' 56.042 N	109° 21' 28.562 W
2,600.00	20.00	186.45	2,501.42	-613.49	-69.35	14,523,777.26	2,100,418.00	39° 58' 55.706 N	109° 21' 28.611 W
2,700.00	20.00	186.45	2,595.39	-647.47	-73.19	14,523,743.21	2,100,414.78	39° 58' 55.370 N	109° 21' 28.660 W
2,800.00	20.00	186.45	2,689.35	-681.46	-77.03	14,523,709.16	2,100,411.57	39° 58' 55.034 N	109° 21' 28.710 W
2,900.00	20.00	186.45	2,783.32	-715.44	-80.87	14,523,675.11	2,100,408.35	39° 58' 54.698 N	109° 21' 28.759 W
3,000.00	20.00	186.45	2,877.29	-749.43	-84.72	14,523,641.06	2,100,405.14	39° 58' 54.363 N	109° 21' 28.808 W
3,032.19	20.00	186.45	2,907.54	-760.37	-85.95	14,523,630.10	2,100,404.10	39° 58' 54.254 N	109° 21' 28.824 W
<b>Start Drop -2.00</b>									
3,100.00	18.64	186.45	2,971.53	-782.66	-88.47	14,523,607.76	2,100,402.00	39° 58' 54.034 N	109° 21' 28.857 W
3,200.00	16.64	186.45	3,066.82	-812.78	-91.88	14,523,577.59	2,100,399.15	39° 58' 53.736 N	109° 21' 28.900 W
3,300.00	14.64	186.45	3,163.11	-839.57	-94.91	14,523,550.75	2,100,396.61	39° 58' 53.472 N	109° 21' 28.939 W
3,400.00	12.64	186.45	3,260.29	-863.01	-97.55	14,523,527.26	2,100,394.39	39° 58' 53.240 N	109° 21' 28.973 W
3,500.00	10.64	186.45	3,358.22	-883.07	-99.82	14,523,507.17	2,100,392.50	39° 58' 53.042 N	109° 21' 29.002 W
3,600.00	8.64	186.45	3,456.80	-899.71	-101.70	14,523,490.49	2,100,390.92	39° 58' 52.877 N	109° 21' 29.027 W
3,700.00	6.64	186.45	3,555.91	-912.93	-103.20	14,523,477.25	2,100,389.67	39° 58' 52.747 N	109° 21' 29.046 W
3,800.00	4.64	186.45	3,655.42	-922.70	-104.30	14,523,467.46	2,100,388.75	39° 58' 52.650 N	109° 21' 29.060 W
3,900.00	2.64	186.45	3,755.21	-929.01	-105.02	14,523,461.14	2,100,388.15	39° 58' 52.588 N	109° 21' 29.069 W
4,000.00	0.64	186.45	3,855.17	-931.86	-105.34	14,523,458.28	2,100,387.88	39° 58' 52.559 N	109° 21' 29.073 W
4,032.19	0.00	0.00	3,887.36	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
<b>Start 4641.64 hold at 4032.19 MD</b>									
4,100.00	0.00	0.00	3,955.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
4,200.00	0.00	0.00	4,055.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W



<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Bonanza 1023-5E2AS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-5D Pad	<b>North Reference:</b>	True
<b>Well:</b>	Bonanza 1023-5E2AS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

**Planned Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
4,300.00	0.00	0.00	4,155.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
4,400.00	0.00	0.00	4,255.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
4,414.83	0.00	0.00	4,270.00	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
<b>WASATCH</b>									
4,500.00	0.00	0.00	4,355.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
4,600.00	0.00	0.00	4,455.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
4,700.00	0.00	0.00	4,555.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
4,800.00	0.00	0.00	4,655.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
4,900.00	0.00	0.00	4,755.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
5,000.00	0.00	0.00	4,855.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
5,100.00	0.00	0.00	4,955.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
5,200.00	0.00	0.00	5,055.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
5,300.00	0.00	0.00	5,155.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
5,400.00	0.00	0.00	5,255.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
5,500.00	0.00	0.00	5,355.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
5,600.00	0.00	0.00	5,455.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
5,700.00	0.00	0.00	5,555.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
5,800.00	0.00	0.00	5,655.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
5,900.00	0.00	0.00	5,755.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
6,000.00	0.00	0.00	5,855.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
6,100.00	0.00	0.00	5,955.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
6,200.00	0.00	0.00	6,055.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
6,300.00	0.00	0.00	6,155.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
6,400.00	0.00	0.00	6,255.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
6,500.00	0.00	0.00	6,355.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
6,600.00	0.00	0.00	6,455.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
6,700.00	0.00	0.00	6,555.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
6,800.00	0.00	0.00	6,655.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
6,900.00	0.00	0.00	6,755.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
7,000.00	0.00	0.00	6,855.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
7,100.00	0.00	0.00	6,955.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
7,200.00	0.00	0.00	7,055.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
7,300.00	0.00	0.00	7,155.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
7,400.00	0.00	0.00	7,255.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
7,500.00	0.00	0.00	7,355.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
7,500.83	0.00	0.00	7,356.00	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
<b>MESAVERDE</b>									
7,600.00	0.00	0.00	7,455.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
7,700.00	0.00	0.00	7,555.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
7,800.00	0.00	0.00	7,655.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
7,900.00	0.00	0.00	7,755.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
8,000.00	0.00	0.00	7,855.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
8,100.00	0.00	0.00	7,955.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
8,200.00	0.00	0.00	8,055.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
8,300.00	0.00	0.00	8,155.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
8,400.00	0.00	0.00	8,255.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
8,500.00	0.00	0.00	8,355.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
8,600.00	0.00	0.00	8,455.17	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W
8,673.83	0.00	0.00	8,529.00	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W

TD at 8673.83 - BONANZA 1023-5E2AS PBHL



<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Bonanza 1023-5E2AS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-5D Pad	<b>North Reference:</b>	True
<b>Well:</b>	Bonanza 1023-5E2AS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

Targets										
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
BONANZA 1023-5E2/ - plan hits target center - Circle (radius 25.00)		0.00	0.00	8,529.00	-932.04	-105.36	14,523,458.10	2,100,387.86	39° 58' 52.558 N	109° 21' 29.074 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,105.78	2,037.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
7,500.83	7,356.00	MESAVERDE		0.00	
4,414.83	4,270.00	WASATCH		0.00	
1,272.58	1,254.00	GREEN RIVER		0.00	

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.00	300.00	0.00	0.00	Start Build 2.00
1,300.00	1,279.82	-171.67	-19.41	Start 1732.19 hold at 1300.00 MD
3,032.19	2,907.54	-760.37	-85.95	Start Drop -2.00
4,032.19	3,887.36	-932.04	-105.36	Start 4641.64 hold at 4032.19 MD
8,673.83	8,529.00	-932.04	-105.36	TD at 8673.83

Bonanza 1023-5C2CS/ 1023-5D2DS/ 1023-5D3AS  
 Bonanza 1023-5E2AS/ 1023-6A1CS  
 Kerr-McGee Oil Gas Onshore, L.P.

Bonanza 1023-5D Pad  
 Surface Use Plan of Operations  
 1 of 14

## Kerr-McGee Oil & Gas Onshore. L.P.

### Bonanza 1023-5D Pad

<u>API #</u>	<u>BONANZA 1023-5C2CS</u>		
	Surface: 519 FNL / 507 FWL	NWNW	Lot 4
	BHL: 485 FNL / 1480 FWL	NENW	Lot 3
<u>API #</u>	<u>BONANZA 1023-5D2DS</u>		
	Surface: 514 FNL / 516 FWL	NWNW	Lot 4
	BHL: 485 FNL / 603 FWL	NWNW	Lot 4
<u>API #</u>	<u>BONANZA 1023-5D3AS</u>		
	Surface: 524 FNL / 499 FWL	NWNW	Lot 4
	BHL: 840 FNL / 591 FWL	NWNW	Lot 4
<u>API #</u>	<u>BONANZA 1023-5E2AS</u>		
	Surface: 529 FNL / 490 FWL	NWNW	Lot 4
	BHL: 1461 FNL / 384 FWL	SWNW	Lot
<u>API #</u>	<u>BONANZA 1023-6A1CS</u>		
	Surface: 534 FNL / 481 FWL	NWNW	Lot 4
	BHL: 361 FNL / 506 FEL	NENE	Lot 1

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

An on-site meeting was held on May 19, 2010. Present were:

- David Gordon, NRS; Kevin Sadiler, NRS; Ryan Angus, PET Engineer; Steve Strong, Reclamation; Dan Emmett, Wildlife Biologist - BLM;
- John Slaugh, Mitch Batty, Brian Venn, Jacob Dunham, Jake Edmunds, B.J. Reenders - 609 & Timberline Engineering & Land Surveying, Inc.
- Danielle Piernot and Kathy Schneebeck Dulnoan, Regulatory; Brad Burman, Completions; Clay Einerson, Construction; Grizz Oleen, Environmental; Charles Chase, Reclamation; Lovell Young, Drilling, Roger Parry and Ramey Hoopes, Construction

#### A. Existing Roads:

Existing roads consist of county and improved/unimproved access roads (two-tracks). In accordance with Onshore Order #1, Kerr-McGee will, in accordance with BMPs, improve or maintain existing roads in a condition that is the same as or better than before operations began. New or reconstructed proposed access roads are discussed in Section B.

The existing roads will be maintained in a safe and usable condition. Maintenance for existing roads will continue until final abandonment and reclamation of well pads and/or other facilities, as applicable. Road maintenance will include, but is not limited to, blading, ditching, and/or culvert installation and cleanout. To ensure safe operating conditions, gravel surfacing will be performed where excessive rutting or erosion may occur. Dust control will be performed as necessary to ensure safe operating conditions.

Bonanza 1023-5C2CS/ 1023-5D2DS/ 1023-5D3AS  
Bonanza 1023-5E2AS/ 1023-6A1CS  
Kerr-McGee Oil Gas Onshore, L.P.

Bonanza 1023-5D Pad  
Surface Use Plan of Operations  
2 of 14

Roads, gathering lines and electrical distribution lines will occupy common disturbance corridors where possible. Where available, roadways will be used as the staging area and working space for installation of gathering lines. All disturbances located in the same corridor will overlap each other to the maximum extent possible, while maintaining safe and sound construction and installation practices. Unless otherwise approved or requested in site specific documents, in no case will the maximum disturbance widths of the access road and utility corridors exceed the widths specified in Part D of this document.

Please refer to Topo B, for existing roads.

**All access roads leading to the pad are existing and on lease; therefore do not require a ROW.**

(1.0 miles) – Section 5 T10S R23E (NW/4 NW/4) – On-lease UTU33433, from existing pad traveling southeast onto existing road to the county road intersection.

**B. New or Reconstructed Access Roads:**

All new or reconstructed roads will be located, designed, and maintained to meet the standards of the BLM. BMPs. Described in the BLM's Surface Operating Standards for Oil and Gas Exploration and Development, 4th Edition (Gold Book) (USDI and USDA, 2007) and/or BLM Manual Section 9113 (1985) will be considered in consultation with the BLM in the design, construction, improvement and maintenance of all new or reconstructed roads. If a new road would cross a water of the United States, Kerr-McGee will adhere to the requirements of applicable Nationwide Permits of the Department of Army Corps of Engineers.

Each new well pad or pad expansion may require construction of a new access road and/or de-commissioning of an older road. Plans, routes, and distances for new roads and road improvements are provided in design packages, exhibits and maps for a project. Project-specific maps are submitted to depict the locations of existing, proposed, and/or decommissioned and include the locations for supporting structures, including, but not limited to, culverts, bridges, low water crossings, range infrastructure, and haul routes, as per OSO 1. Designs for cuts and fills, including spoils source and storage areas, are provided with the road designs, as necessary.

Where safety objectives can be met. As applicable, Kerr-McGee may use unimproved and/or two-track roads for lease operations, to lessen total disturbance.

Road designs will be based on the road safety requirements, traffic characteristics, environmental conditions, and the vehicles the road is intended to carry. Generally, newly constructed unpaved lease roads will be crowned and ditched with the running surfaces of the roads approximately 12-18 feet wide and a total road corridor width not to exceed 45 feet, except where noted in the road design for a specific project. Maximum grade will generally not exceed 8%. Borrow ditches will be back sloped 3:1 or less. Construction BMPs will be employed to control onsite and offsite erosion.

Where topography would direct storm water runoff to an access road or well pad, drainage ditches or other common drainage control facilities, such as V- or wing-ditches, will be constructed to divert surface water runoff. Drainage features, including culverts, will be constructed or installed prior to commencing other operations, including drilling or facilities placement. Riprap will be placed at the inlet and outlet at the culvert(s), as necessary.

Prior to construction, new access road(s) will be staked according to the requirements of OSO 1. Construction activity will not be conducted using frozen or saturated materials or during periods when significant watershed damage (e.g. rutting, extensive sheet soil erosion, formation of rills/gullies, etc.) is likely to occur. Vegetative debris will not be placed in or under fill embankments.

New road maintenance will include, but is not limited to, blading, ditching, culvert installation and cleanout, gravel surfacing where excessive rutting or erosion may occur and dust control, as necessary to ensure safe operating

10/12/2011

**RECEIVED: October 14, 2011**

Bonanza 1023-5C2CS/ 1023-5D2DS/ 1023-5D3AS  
 Bonanza 1023-5E2AS/ 1023-6A1CS  
 Kerr-McGee Oil Gas Onshore, L.P.

Bonanza 1023-5D Pad  
 Surface Use Plan of Operations  
 3 of 14

conditions. All vehicular traffic, personnel movement, construction/restoration operations will be confined to the approved area and to existing roadways and/or access routes.

Snow removal will be conducted on an as-needed basis to accommodate safe travel. Snow removal will occur as necessary throughout the year, as will necessary drainage ditch construction. Removed snow may be stored on permitted well pads to reduce hauling distances and/or at the aerial extent of approved disturbance boundaries to facilitate snow removal for the remainder of the season.

If a county road crossing or encroachment permit is needed, it will be obtained prior to construction.

**The following segments are "on-lease"**

±145' (0.02 miles) – Section 5 T10S R23E (NW/4 NW/4) – On-lease UTU33433, from the edge of pad to the T-intersection in NW/4 NW/4. Please refer to Topo D.

\*\* Please refer to Topo B

**C. Location of Existing Wells:**

A) Refer to Topo Map C.

**D. Location of Existing and/or Proposed Facilities:**

The Bonanza 1023-5D Pad will be a newly constructed pad. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

Should the well(s) prove productive, production facilities will be installed on the disturbed portion of each well pad. A berm will be constructed completely around production components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will generally be constructed of compacted subsoil or corrugated metal, and will hold the capacity of the largest tank and have sufficient freeboard to accommodate a 25 year rainfall event. This includes pumping units. Aboveground structures constructed or installed onsite for 6 months or longer, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with the BLM (typically Shadow Gray). A production facility layout is provided as part of a project-specific APD, ROW or NOS submission.

**GAS GATHERING**

*Please refer to Exhibit B and Topo D- Pad and Pipeline Detail.*

The gas gathering pipeline material: Steel line pipe. Surface = Bare pipe. Buried = Coated with fusion bonded epoxy coating (or equivalent). The total gas gathering pipeline distance from the meter to the tie in point is ±5,760' and the individual segments are broken up as follows:

**The following segments are "onlease", no ROW needed.**

- ±570' (0.11 miles) – Section 5 T10S R23E (NW/4 NW/4) – On-lease UTU33433, BLM surface, New 6" buried gas gathering pipeline from the first meter house to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.
- ±1,520' (0.29 miles) – Section 5 T10S R23E (NW/4 NW/4) – On-lease UTU33433, BLM surface, New 6" buried gas gathering pipeline from the edge of the pad to the proposed 8" tie-in at the 1023-5C intersection. Please refer to Topo D and Exhibit A, Line 1.

10/12/2011

**RECEIVED: October 14, 2011**

- ±1,340' (0.25 miles) – Section 5 T10S R23E (SE/4 NW/4) – On-lease UTU33433, BLM surface, New 8" buried gas gathering pipeline from the 1023-5C intersection to the proposed 10" tie-in at the 1023-5K intersection. Please refer to Topo D and Exhibit A, Line 3. This pipeline will be used concurrently with the Bonanza 1023-5C Pad.
- ±2,330' (0.5 miles) – Section 5 T10S R23E (SW/4 NE/4) – On-lease UTU33433, BLM surface, New 10" buried gas gathering pipeline from the 1023-5K intersection traveling Southeast to tie-in to the existing buried 16" gas pipeline. Please refer to Exhibit A, Line 5 & 7. This pipeline will be used concurrently with the Bonanza 1023-5C, Bonanza 1023-5K, Bonanza 1023-5B and Bonanza 1023-5H pads.

### LIQUID GATHERING

The total liquid gathering pipeline distance from the separator to the tie in point is ±5,450' and the individual segments are broken up as follows:

**The following segments are "onlease", no ROW needed.**

- ±570' (0.11 miles) – Section 5 T10S R23E (NW/4 NW/4) – On-lease UTU33433, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D2-Pad and Pipeline Detail.
- ±1,520' (0.29 miles) – Section 5 T10S R23E (NW/4 NW/4) – On-lease UTU33433, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to the 1023-5C intersection. Please refer to Topo D and Exhibit B, Line 4.
- ±1,340' (0.25 miles) – Section 5 T10S R23E (SE/2 NW/4) – On-lease UTU33433, BLM surface, New 6" buried liquid gathering pipeline from the 1023-5C intersection to the 1023-5K intersection. Please refer to Exhibit B, Line 5. This pipeline will be used concurrently with the Bonanza 1023-5C pad.
- ±120' (0.02 miles) – Section 5 T10S R23E (SW/2 NE/4) – On-lease UTU33433, BLM surface, New 6" buried liquid gathering pipeline from the 1023-5K intersection to the 1023-5B intersection. Please refer to Exhibit B, Line 6. This pipeline will be used concurrently with the Bonanza 1023-5C and Bonanza 1023-5K pads.
- ±1,830' (0.35 miles) – Section 5 T10S R23E (SW/4 NE/4) – On-lease UTU33433, BLM surface, New 6" buried liquid gathering pipeline from the main road intersection traveling Southeast to the tie-in point. Please refer Exhibit B, Line 7. This pipeline will be used concurrently with the Bonanza 1023-5C, Bonanza 1023-5K and Bonanza 1023-5B pads.
- ±70' (0.01 miles) – Section 5 T10S R23E (NE/4 SE/4) – On-lease UTU33433, BLM surface, New 6" buried liquid gathering pipeline from the tie-in point to the compressor site. Please refer to Exhibit B, Line 8. This pipeline will be used concurrently with the Bonanza 1023-5C, Bonanza 1023-5K, Bonanza 1023-5B and Bonanza 1023-5H pads.

### Pipeline Gathering Construction

Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee. Gas gathering pipeline(s), gas lift, or liquids pipelines may be constructed to lie on the surface or be buried. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. The area of disturbance during construction from the edge of road or well pad will typically be 30' in width. Where pipelines run cross country, the width of disturbance will typically be 45 ft for buried lines and 30 ft for surface lines. In addition, Kerr-McGee requests for a permanent 30' disturbance width that will be maintained for the portion adjacent to the road. The need for the 30' permanent disturbance width is for maintenance and repairs. Cross country permanent disturbance width also are required to be 30ft.

Above-ground installation will generally not require clearing of vegetation or blading of the surface, except where safety considerations necessitate earthwork. In some surface pipeline installation instances pipe cannot be constructed where it will lay. In these cases where an above-ground pipeline is constructed parallel and adjacent to a road, it will be welded/fused on the road and then lifted from the road to the pipeline route. In other cases where a pipeline route is not

Bonanza 1023-5C2CS/ 1023-5D2DS/ 1023-5D3AS  
Bonanza 1023-5E2AS/ 1023-6A1CS  
Kerr-McGee Oil Gas Onshore, L.P.

Bonanza 1023-5D Pad  
Surface Use Plan of Operations  
5 of 14

parallel and adjacent to a road (cross-country between sites), it will be welded/fused in place at a well pad, access road, or designated work area and pulled between connection locations with a suitable piece of equipment.

Buried pipelines will generally be installed parallel and adjacent to existing and/or newly constructed roads and within the permitted disturbance corridor. Buried pipelines may vary from 2 inches (typically fuel gas lines) to 24 inches (typically transportation lines) in diameter, but 6 to 16 inches is typical for a buried gas line. The diameter of liquids pipelines may vary from 2 inches to 12 inches, but 6 inches is the typical diameter. Gas lift lines may vary from 2 to 12 inches in diameter, but 6-inch diameter pipes are generally used for gas lift. If two or more pipelines are present (gas gathering, gas lift, and fluids), they will share a common trench where possible.

Typically, to install a buried pipeline, topsoil will be removed, windrowed and placed on the non-working side of the route for later reclamation. Because working room is limited, the spoil may be spread out across the working side and construction will take place on the spoil. The working side of the corridor will be used for pipe stringing, bending, welding and equipment travel. Small areas on the working side displaying ruts or uneven ground will be groomed to facilitate the safe passage of equipment. After the pipelines are installed, spoil will be placed back into the trench, and the topsoil will be redistributed over the disturbed corridor prior to final reclamation. Typical depth of the trench will be 6 feet, but depths may vary according to site-specific conditions (presence of bedrock, etc.). The proposed trench width for the pipeline would range from 18-48 inches.

The pipeline will be welded along the proposed route and lowered into place. Trenching equipment will cut through the soil or into the bedrock and create good backfill, eliminating the need to remove large rocks. The proposed buried pipeline will be visually and radiographically inspected and the entire pipeline will be pneumatically or hydrostatically tested before being placed into service. Routine vehicle traffic will be prevented from using pipeline routes as travel ways by posting signs at the route's intersection with an access road.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

If pipelines or roads encounter a drainage that could be subject to flooding or surface water during extreme precipitation events, Kerr-McGee will apply all applicable Army Corps mandates as well as the BLM's Hydraulic Considerations for Pipeline Crossings of Stream Channels (BLM Technical Note 423, April 2007). In addition, all stream and drainage crossings will be evaluated to determine the need for stream alteration permits from the State of Utah Division of Water Rights and if necessary, required permits will be secured. Similarly, where a road or pipeline crossing exists the pipe will be butt welded and buried to a depth between 24 and 48 inches or more. Dirt roads will be cut and restored to a condition equivalent to the existing condition. All Uintah County road encroachment and crossing permits, where applicable, will be obtained prior to crossing construction. In no case will pressure testing of pipelines result in discharge of liquids to the surface.

Pipeline signs will be installed along the route to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves and lateral T's will be installed at various locations for production integrity and safety purposes.

Upon completion of the proposed buried pipeline, the entire area of disturbance will be reclaimed to the standards proposed in the Green River District Reclamation Guidelines. Please refer to section J for more details regarding final reclamation.

When no longer deemed necessary by the operator, Kerr-McGee or it's successor will consult with the BLM, Vernal Field Office before terminating of the use of the pipeline(s).

**The Anadarko Completions Transportation System (ACTS) information:**

Please refer to Exhibit C for ACTs Lines

10/12/2011

**RECEIVED: October 14, 2011**

Bonanza 1023-5C2CS/ 1023-5D2DS/ 1023-5D3AS  
 Bonanza 1023-5E2AS/ 1023-6A1CS  
 Kerr-McGee Oil Gas Onshore, L.P.

Bonanza 1023-5D Pad  
 Surface Use Plan of Operations  
 6 of 14

Kerr-McGee will use either a closed loop drilling system that will require one pit and one storage area to be constructed on the drilling pad or a traditional drilling operation with one pit. The storage area will be used to contain only the de-watered drill cuttings and will be lined and reclaimed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit is lined and will be used for the wells drilled on the pad or used as part of our Anadarko Completions Transportation (ACTS) system which is discussed in more detail below. Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completion pit.

If Kerr-McGee does not use a closed loop system, it will construct a drilling reserve pit to contain drill cuttings and for use in completion operations. Depending on the location of the pit, its relation to future drilling locations, the reserve/completion pit will be utilized for the completion of the wells on that pad and/or be used as part of our ACTS system.

Kerr-McGee will use ACTS to optimize the completion processes for multiple pads across the project area which may include up to a section of development. ACTS will facilitate management of frac fluids by utilizing existing reserve pits and temporary, surface-laid aluminum liquids transfer lines between frac locations. The pit will be refurbished as follows when a traditional drill pit is used: mix and pile up drill cuttings with dry dirt, bury the original liner in the pit, walk bottom of pit with cat. Kerr-McGee will reline the pit with a 30 mil liner and double felt padding. The refurbished pit will be the same size or smaller as specified in the originally approved ROW/APD. The pit refurb will be done in a normal procedure and there will be no modification to the pit.

All four sides of the completions pit will be fenced in according to standard pit fencing procedures. Netting will be installed over all pits.

The collected hydrocarbons will be treated and sold at approved sales facilities. A loading rack with drip containment will also be installed where water trucks would unload and load to prevent damage caused from pulling hoses in and out of the pit .

ACTS will require temporarily laying multiple 6" aluminum water transfer lines on the surface between either existing or refurbished reserve pits. Please see the attached ACTS exhibit C for placement of the proposed temporary lines. The temporary aluminum transfer lines will be utilized to transport frac fluid being injected and/or recovered during the completion process and will be laid adjacent to existing access roads or pipeline corridors. Upon completion of the frac operation, the liquids transfer lines will be flushed with fresh water and purged with compressed air. The contents of the transfer lines will be flushed into a water truck for delivery to another ACTS location or a reserve pit.

The volume of frac fluid transported through a water transfer line will vary, but volume is projected to be approximately 1.75 bbls per 50-foot joint. Although the maximum working pressure is 125 psig, the liquids transfer lines will be operated at a pressure of approximately 30 to 40 psig. Kerr-McGee requests to keep the netted pit open for one year from first production of the first produced well on the pad. During this time the surrounding well location completion fluids may be recycled in this pit and utilized for other frac jobs in the area. After one year Kerr-McGee will backfill the pit and reclaim. If the pit is not needed for an entire year it will be backfilled and reclaimed earlier. Kerr-McGee understands that due to the temporary nature of this system, BLM considers this a casual use situation; therefore, no permanent ROW or temporary use plan will need to be issued by the BLM.

#### **E. Location and Types of Water Supply:**

Water for drilling and completion operations will be obtained from the following sources:

Permit # 49-2307	JD Field Services	Green River- Section 15, T2N, R22E
Permit # 49-2321	R.N. Industries	White River- Section 2, T10S, R24E
Permit # 49-2319	R.N. Industries	White River- Various Sources
Permit # 49-2320	R.N. Industries	Green River- Section 33, T8S, R23E

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

**F. Construction Materials:**

Construction operations will typically be completed with native materials found on location. Construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source (described in site-specific documents). No construction materials will be removed from federal lands without prior approval from the BLM. A source location other than an on-location construction site will be designated either via a map or narrative within the project specific materials provided to the BLM.

**G. Methods for Handling Waste:**

All wastes subject to regulation will be handled in compliance with applicable laws to minimize the potential for leaks or spills to the environment. Kerr-McGee also maintains a Spill Control and Countermeasure Plan, which includes notification requirements, including the BLM, for all reportable spills of oil, produced liquids, and hazardous materials.

Any accidental release, such as a leak or spill in excess of the reportable quantity, as established by 40 CFR Part 117.3, will be reported as per the requirements of CERCLA, Section 102 B. If a release involves petroleum hydrocarbons or produced liquids, Kerr-McGee will comply with the notification requirements of NTL-3A. Drill cuttings and/or drilling fluids will be contained in the reserve/frac pit whether a closed loop system is used or not. Cuttings will be buried in pit(s) upon closure. Unless specifically approved by the BLM, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface precipitation runoff into the pit (via appropriate placement of subsoil storage areas and/or construction of berms, ditches, etc). Should unexpected liquid petroleum hydrocarbons (crude oil or condensate) be encountered during drilling, completions or well testing, liquid petroleum hydrocarbons will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by the BLM. Should timely removal not be feasible, the pit will be netted as soon as practical. Similarly, hydrocarbon removal will take place prior to the closure of the pit, unless authorization is provided for disposal via alternate pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with an impermeable liner. The liner will be a synthetic material 30 mil or thicker. The bottom and side walls of the pit will be void of any sharp rocks that could puncture the liner. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. After evaporation and when dry, the reserve pit liners will be cut off, ripped and/or folded back (as safety considerations allow) as near to the mud surface as possible and buried on location or hauled to a landfill prior to backfilling the pit with a minimum of five feet of soil material.

Where necessary and if conditions (freeboard, etc.) allow, produced liquids from newly completed wells may be temporarily disposed of into pits for a period not to exceed 90 days as per Onshore Order Number 7 (OSO 7). Subsequently, permanent approved produced water disposal methods will be employed in accordance with OSO 7 and/or as described in a Water Management Plan (WMP). Otherwise, fluids disposal locations and associated haul routes, for ROW consideration, are typically depicted on Topo A of individual projects. Revisions to the water source or method of transportation will be subject to written approval from the BLM.

Any additional pits necessary for subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after one year from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions

Bonanza 1023-5C2CS/ 1023-5D2DS/ 1023-5D3AS  
Bonanza 1023-5E2AS/ 1023-6A1CS  
Kerr-McGee Oil Gas Onshore, L.P.

Bonanza 1023-5D Pad  
Surface Use Plan of Operations  
8 of 14

allow) to an approved site and the pit reclaimed. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse (trash and other solid waste including cans, paper, cable, etc.) generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility. Immediately after removal of the drilling rig, all debris and other waste materials not contained within trash receptacles will be collected and removed from the well location.

For the protection of livestock and wildlife, all open pits (excluding flare pits) will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet. Siphons, catchments, and absorbent pads will be installed to keep hydrocarbons produced by the drilling rig or other equipment on location from entering the reserve pit. Hydrocarbons, contaminated pads, and/or soils will be disposed of in accordance with state and federal requirements.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

### **Materials Management**

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Hazardous materials may be contained in some grease or lubricants, solvents, acids, paint, and herbicides, among others as defined above. Kerr-McGee maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances that are used during the course of construction, drilling, completion, and production operations for this project. The transport, use, storage and handling of hazardous materials will follow procedures specified by federal and state regulations. Transportation of hazardous materials to the well location is regulated by the Department of Transportation (DOT) under 49 CFR, Parts 171-180. DOT regulations pertain to the packing, container handling, labeling, vehicle placarding, and other safety aspects.

Potentially hazardous materials used in the development or operation of wells will be kept in limited quantities on well sites and at the production facilities for short periods of time. Chemicals meeting the criteria for being an acutely hazardous material/substance or meet the quantities criteria per BLM Instruction Memorandum No. 93-344 will not be used.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities (crude oil/condensate, produced water). They may also be kept in limited quantities on drilling sites (barite, diesel fuel, cement, cottonseed hulls etc.) for short periods of time during drilling or completion activities.

Fluids disposal and pipeline/haul routes are depicted on Topo Map A.

Bonanza 1023-5C2CS/ 1023-5D2DS/ 1023-5D3AS  
Bonanza 1023-5E2AS/ 1023-6A1CS  
Kerr-McGee Oil Gas Onshore, L.P.

Bonanza 1023-5D Pad  
Surface Use Plan of Operations  
9 of 14

Any produced water separated from recoverable condensate from the proposed well will be contained in a water tank and will then be transported by pipeline and/or truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E  
NBU #159 in Sec. 35 T9S R21E  
Ace Oilfield in Sec. 2 T6S R20E  
MC&MC in Sec. 12 T6S R19E  
Pipeline Facility in Sec. 36 T9S R20E  
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E  
Bonanza Evaporation Pond in Sec. 2 T10S R23E

Or to one of the following Kerr-McGee active Salt Water Disposal (SWD) wells:

NBU 159 SWD in Sec. 35 T9S R21E  
CIGE 112D SWD in Sec. 19 T9S R21E  
CIGE 114 SWD in Sec. 34 T9S R21E  
NBU 921-34K SWD in Sec. 34 T9S R21E  
NBU 921-33F SWD in Sec. 34 T9S R21E

#### **H. Ancillary Facilities:**

No additional ancillary facilities are planned for this location.

#### **I. Well Site Layout:**

The location, orientation and aerial extent of each drill pad, reserve/completion/flare pit (for closed loop or non-closed loop operations), access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure, proposed cuts and fills, and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment depending on whether a closed loop system is used. Surface distance may be less if using closed loop. But in either case, the area of disturbance will not exceed the maximum disturbance outlined in the attached exhibits.

For the protection of livestock and wildlife, all open pits and cellars will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Each well will utilize either a centralized tank battery, centralized fluids management system, or have tanks installed on its pad. Production/ Produced Liquid tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks will be kept reasonably free from surface accumulations of liquid hydrocarbons. The tanks are not to be used for disposal of liquids from additional sources without prior approval of BLM.

#### **J. Plans for Surface Reclamation:**

The surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. Interim reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Bonanza 1023-5C2CS/ 1023-5D2DS/ 1023-5D3AS  
Bonanza 1023-5E2AS/ 1023-6A1CS  
Kerr-McGee Oil Gas Onshore, L.P.

Bonanza 1023-5D Pad  
Surface Use Plan of Operations  
10 of 14

Reclamation activities in both phases may include but is not limited to the re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

### **Interim Reclamation**

Interim reclamation may include pit evaporation, fluid removal, pit solidification, re-contouring, ripping, spreading top soil, seeding, and/or weed control. Interim reclamation will be performed in accordance with OSO 1, or written notification will be provided to the BLM for approval. Where feasible, drilling locations, reserve pits, or access routes not utilized for production operations will be re-contoured to a natural appearance.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left "rough" after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit. Disposal of pit fluids and linings is discussed in Section G.

### **Final Reclamation**

Final reclamation will be performed for unproductive wells and after the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by Kerr-McGee. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. The BLM will be notified prior to commencement of reclamation operations. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring the site to the approximate contour that existed prior to pad construction, final grading will be conducted over the entire surface of the well site and access road. The area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers, where practical. The surface soil material will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep, where practical. The entire area will be uniformly covered with the depressions constructed perpendicular to the natural flow of water.

Reclamation of roads will be performed at the discretion of the BLM. All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded in accordance with the seeding specifications of the BLM.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to the BLM.

### **Measures Common to Interim and Final Reclamation**

10/12/2011

**RECEIVED: October 14, 2011**

Bonanza 1023-5C2CS/ 1023-5D2DS/ 1023-5D3AS  
 Bonanza 1023-5E2AS/ 1023-6A1CS  
 Kerr-McGee Oil Gas Onshore, L.P.

Bonanza 1023-5D Pad  
 Surface Use Plan of Operations  
 11 of 14

Soil preparation will be conducted using a disk for areas in need of more soil preparation following site preparation. This will provide primary soil tillage to a depth no greater than 6 inches. Prior to reseeded, compacted areas will be scarified by ripping or chiseling to loosen compacted soils, promote water infiltration, and improve soil aeration and root penetration.

Seeding will occur year-round as conditions allow and will typically be accomplished through the use of a no-till rangeland style seed drill with a “picker box” in order to seed “fluffy” seed. Where drill seeding is not the preferred method, seed will be broadcast and then raked into the ground at double the rate of drill seeding. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-vegetation. The seed mixes will be selected from a list provided by or approved by the BLM, or a specific seed mix will be proposed by Kerr-McGee to the BLM and used after its approval. The selected specific seed mix for each well location and road segment will be utilized while performing interim and final reclamation for each project. All seed will be certified and tags will be maintained by Kerr-McGee. Every effort will be made to obtain “cheat grass free seed”.

Seed Mix to be used for Well Site, Access Road, and Pipeline (as applicable):

<b>Bonanza Area Mix</b>	<b>Pure Live Seed lbs/acre</b>
Crested Wheat (Hycrest)	2
Bottlebrush Squirreltail	1
Western Wheatgrass	1
Indian Ricegrass	1
Fourwing Saltbush	2
Shadscale	2
Forage Kochia	0.25
Rocky Mountain Bee	0.5
<b>Total</b>	<b>9.75</b>

Additional soil amendments and/or stabilization may be required on sites with poor soils and/or excessive erosion potential. Where severe erosion can become a problem and/or the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. Slopes will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to: erosion control blankets, hydro-mulch, and/or bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage. Soil amendments such as “Sustain” (an organic fertilizer that will be applied at the rate 1,800 – 2,100 lbs/acre with seed) may also be dry broadcast or applied with hydro-seeding equipment.

### **Weed Control**

All weed management will be done in accordance with the Vernal BLM Surface Disturbance Weed Policy. Noxious weeds will be controlled, as applicable, on project areas. Monitoring and management of noxious and/or invasive weeds of concern will be completed annually until the project is deemed successfully reclaimed by the surface management agency and/or owner according to the Anadarko Integrated Weed Management Plan. Noxious weed infestations will be mapped using a GPS unit and submitted to the BLM with information required in the Vernal BLM Surface Disturbance Weed Policy. If herbicide is to be applied it will be done according to an approved Pesticide Use Permit (PUP), inclusive of applicable locations. All pesticide applications will be recorded using a Pesticide Application Record (PAR) and will be submitted along with a Pesticide Use Report (PUR) annually prior to Dec. 31.

### **Monitoring**

Monitoring of reclaimed project areas will be completed annually during the growing season and actions to ensure reclamation success will be taken as needed. During the first two growing seasons an ocular methodology will be used to determine the success of the reclamation activities. During the 3rd growing season a 200 point line intercept (quantitative) methodology will be used to obtain basal cover. The goal is to have the reclaimed area reach 30% basal cover when

10/12/2011

**RECEIVED: October 14, 2011**

Bonanza 1023-5C2CS/ 1023-5D2DS/ 1023-5D3AS  
Bonanza 1023-5E2AS/ 1023-6A1CS  
Kerr-McGee Oil Gas Onshore, L.P.

Bonanza 1023-5D Pad  
Surface Use Plan of Operations  
12 of 14

compared to the reference site. If after three growing seasons the area has not reached 30% basal cover, additional reclamation activities may be necessary. Monitoring will continue until the reclaimed area reaches 75% basal cover of desirable vegetation when compared to the reference site. (Green River District Reclamation Guidelines)

All monitoring reports will be submitted electronically to the Vernal BLM in the form of a geo-database no later than March 1st of the calendar year following the data collection.

**K. Surface/Mineral Ownership:**

United States of America  
Bureau of Land Management  
170 South 500 East  
Vernal, UT 84078  
(435)781-4400

**L. Other Information:**

**Onsite Specifics:**

- Construction: 30 Mil Double Felt
- Facilities: Will be painted Shadow Grey
- Top Soil: Need to save 4" topsoil and will be move and put around the corner
- Will need separate condensate tanks because BHL for Bonanza 1023-6A1CS crosses CA boundary.

**Cultural and Paleontological Resources**

All personnel are strictly prohibited from collecting artifacts, any paleontological specimens or fossils, and from disturbing any significant cultural resources in the area. If artifacts, fossils, or any culturally sensitive materials are exposed or identified in the area of construction, all construction operations that would affect the newly discovered resource will cease, and Kerr-McGee will provide immediate notification to the BLM.

**Resource Reports:**

A Class I literature survey was completed on April 23, 2010 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 10-056.

A paleontological reconnaissance survey was completed on May 13, 2010 by SWCA Environmental Consultants. For additional details please refer to report UT10-14314-11.

Biological field survey was completed on August 20, 2010 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-203.

Bonanza 1023-5C2CS/ 1023-5D2DS/ 1023-5D3AS  
 Bonanza 1023-5E2AS/ 1023-6A1CS  
 Kerr-McGee Oil Gas Onshore, L.P.

Bonanza 1023-5D Pad  
 Surface Use Plan of Operations  
 13 of 14

**Proposed Action Annual Emissions Tables:**

<b>Table 1: Proposed Action Annual Emissions (tons/year)<sup>1</sup></b>			
<b>Pollutant</b>	<b>Development</b>	<b>Production</b>	<b>Total</b>
NO <sub>x</sub>	3.8	0.12	3.92
CO	2.2	0.11	2.31
VOC	0.1	4.9	5
SO <sub>2</sub>	0.005	0.0043	0.0093
PM <sub>10</sub>	1.7	0.11	1.81
PM <sub>2.5</sub>	0.4	0.025	0.425
Benzene	2.2E-03	0.044	0.046
Toluene	1.6E-03	0.103	0.105
Ethylbenzene	3.4E-04	0.005	0.005
Xylene	1.1E-03	0.076	0.077
n-Hexane	1.7E-04	0.145	0.145
Formaldehyde	1.3E-02	8.64E-05	1.31E-02

<sup>1</sup> Emissions include 1 producing well and associated operations traffic during the year in which the project is developed

<b>Table 2: Proposed Action versus 2012 WRAP Phase III Emissions Inventory Comparison</b>			
<b>Species</b>	<b>Proposed Action Production Emissions (ton/yr)</b>	<b>2012 Uintah Basin Emission Inventory<sup>a</sup> (ton/yr)</b>	<b>Percentage of Proposed Action to WRAP Phase III</b>
NO <sub>x</sub>	19.6	16,547	0.12%
VOC	25	127,495	0.02%

<sup>a</sup> [http://www.wrapair.org/forums/ogwg/PhaseIII\\_Inventory.html](http://www.wrapair.org/forums/ogwg/PhaseIII_Inventory.html)

Uintah Basin Data

Bonanza 1023-5C2CS/ 1023-5D2DS/ 1023-5D3AS  
Bonanza 1023-5E2AS/ 1023-6A1CS  
Kerr-McGee Oil Gas Onshore, L.P.

Bonanza 1023-5D Pad  
Surface Use Plan of Operations  
14 of 14

**M. Lessee's or Operators' Representative & Certification:**

Gina T. Becker  
Regulatory Analyst II  
Kerr-McGee Oil & Gas Onshore LP  
PO Box 173779  
Denver, CO 80217-3779  
(720) 929-6086

Tommy Thompson  
General Manager, Drilling  
Kerr-McGee Oil & Gas Onshore LP  
PO Box 173779  
Denver, CO 80217-3779  
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.



Gina T. Becker

October 14, 2011

Date



Joseph D. Johnson  
LANDMAN

Kerr-McGee Oil & Gas Onshore LP  
P.O. Box 173779  
Denver, CO 80217-3779

June 8, 2011

Ms. Diana Mason  
Division of Oil, Gas and Mining  
P.O. Box 145801  
Salt Lake City, UT 84114-6100

Re: Exception Location R649-3-3 and Directional Drilling R649-3-11  
Bonanza 1023-5E2AS  
T10S- R23E  
Section 5: NWNW/SWNW  
529' FNL, 490' FWL (surface)  
1461' FNL, 384' FWL (bottom hole)  
Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-3 and Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- Kerr-McGee's Bonanza 1023-5E2AS is located within the area covered by Docket No. 2008-011 authorizing the equivalent of an approximate 10-acre well density pattern, and requiring approval for wells drilled at an exception location and wells drilled directionally in accordance with the referenced rules.
- Kerr-McGee is permitting this well at this location for geological reasons. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to minimize surface disturbance.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to Rule R649-3-3 and Rule R649-3-11.

Sincerely,

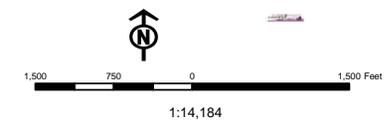
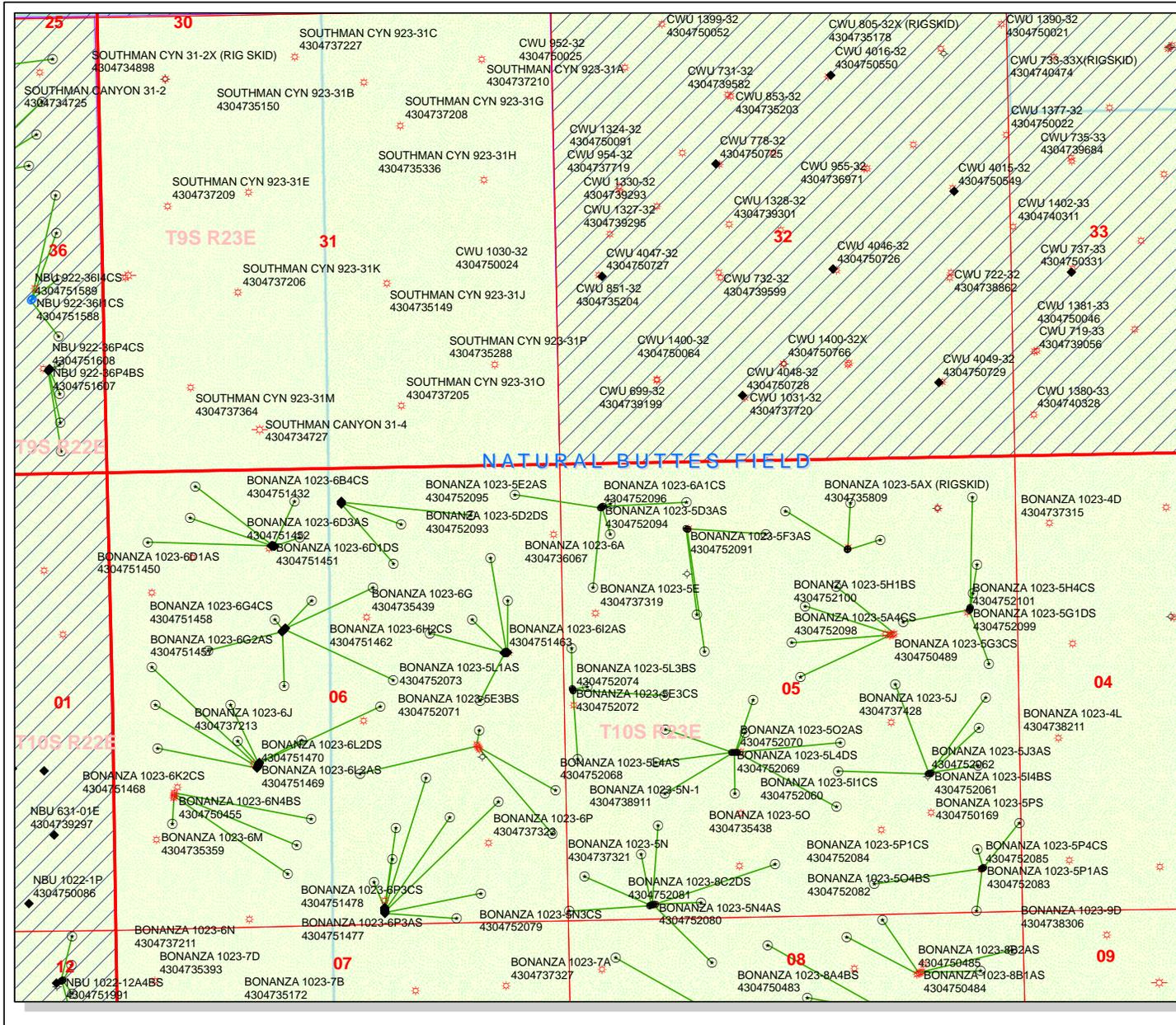
KERR-MCGEE OIL & GAS ONSHORE LP

A handwritten signature in blue ink, appearing to read 'J.D.J.', with a horizontal line underneath.

Joseph D. Johnson  
Landman

**API Number: 4304752095**  
**Well Name: BONANZA 1023-5E2AS**  
 Township T1.0 . Range R2.3 . Section 05  
 Meridian: SLBM  
 Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:  
 Map Produced by Diana Mason



## WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 10/14/2011

**API NO. ASSIGNED:** 43047520950000

**WELL NAME:** BONANZA 1023-5E2AS

**OPERATOR:** KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)

**PHONE NUMBER:** 720 929-6086

**CONTACT:** Gina Becker

**PROPOSED LOCATION:** NWNW 05 100S 230E

**Permit Tech Review:**

**SURFACE:** 0529 FNL 0490 FWL

**Engineering Review:**

**BOTTOM:** 1461 FNL 0384 FWL

**Geology Review:**

**COUNTY:** UINTAH

**LATITUDE:** 39.98384

**LONGITUDE:** -109.35845

**UTM SURF EASTINGS:** 640159.00

**NORTHINGS:** 4427254.00

**FIELD NAME:** NATURAL BUTTES

**LEASE TYPE:** 1 - Federal

**LEASE NUMBER:** UTU33433

**PROPOSED PRODUCING FORMATION(S):** WASATCH-MESA VERDE

**SURFACE OWNER:** 1 - Federal

**COALBED METHANE:** NO

**RECEIVED AND/OR REVIEWED:**

- PLAT**
- Bond:** FEDERAL - WYB000291
- Potash**
- Oil Shale 190-5**
- Oil Shale 190-3**
- Oil Shale 190-13**
- Water Permit:** 43-8496
- RDCC Review:**
- Fee Surface Agreement**
- Intent to Commingle**

**Commingle Approved**

**LOCATION AND SITING:**

- R649-2-3.**
- Unit:**
- R649-3-2. General**
- R649-3-3. Exception**
- Drilling Unit**
- Board Cause No:** Cause 179-14
- Effective Date:** 6/12/2008
- Siting:** 460' Fr Ext Drl Unit Boundary
- R649-3-11. Directional Drill**

**Comments:** Presite Completed

**Stipulations:**  
 1 - Exception Location - dmason  
 3 - Commingle - ddoucet  
 4 - Federal Approval - dmason  
 15 - Directional - dmason



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

## State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

### Permit To Drill

\*\*\*\*\*

**Well Name:** BONANZA 1023-5E2AS

**API Well Number:** 43047520950000

**Lease Number:** UTU33433

**Surface Owner:** FEDERAL

**Approval Date:** 10/26/2011

**Issued to:**

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

**Authority:**

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 179-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

**Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

**Exception Location:**

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

**Commingle:**

In accordance with Board Cause No. 179-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

**General:**

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**Conditions of Approval:**

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

**Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

**Approved By:**

A handwritten signature in black ink, appearing to read "John Rogers", with a stylized flourish at the end.

For John Rogers  
Associate Director, Oil & Gas



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

JUL 22 2011

BLM

FORM APPROVED  
OMB No. 1004-0136  
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU33433
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERR-MCGEE OIL & GAS ONSHORE Contact: GINA T BECKER Email: GINA.BECKER@ANADARKO.COM		7. If Unit or CA Agreement, Name and No. CA-UTU-74473
3a. Address P.O. BOX 173779 DENVER, CO 80202-3779		8. Lease Name and Well No. BONANZA 1023-5E2AS
3b. Phone No. (include area code) Ph: 720-929-6086 Fx: 720-929-7086		9. API Well No. 43-047-52095
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface NWNW Lot 4 529FNL 490FWL 39.983791 N Lat, 109.358379 W Lon At proposed prod. zone SWNW 1461FNL 384FWL 39.981232 N Lat, 109.358756 W Lon		10. Field and Pool, or Exploratory BONANZA
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 48 MILES SOUTHEAST OF VERNAL, UTAH		11. Sec., T., R., M., or Blk. and Survey or Area Sec 5 T10S R23E Mer SLB
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 384	16. No. of Acres in Lease 1923.00	12. County or Parish UINTAH
17. Spacing Unit dedicated to this well	13. State UT	
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1257	19. Proposed Depth 8674 MD 8529 TVD	20. BLM/BIA Bond No. on file WYB000291
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5242 GL	22. Approximate date work will start 12/31/2011	23. Estimated duration 60-90 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature (Electronic Submission)	Name (Printed/Typed) GINA T BECKER Ph: 720-929-6086	Date 07/08/2011
Title REGULATORY ANALYST II		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date MAR 02 2011
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached **CONDITIONS OF APPROVAL ATTACHED**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

NOTICE OF APPROVAL

Electronic Submission #112585 verified by the BLM Well Information System  
For KERR-MCGEE OIL & GAS ONSHORE, sent to the Vernal

RECEIVED

MAR 14 2012

DIV. OF OIL, GAS & MINING

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4401



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company:	Kerr McGee Oil & Gas Onshore, LP	Location:	Lot 4, Sec. 5, T10S, R23E (S) SWNW, Sec. 5, T10S, R23E (B)
Well No:	Bonanza 1023-5E2AS	Lease No:	UTU-33433
API No:	43-047-52095	Agreement:	CA UTU-74473

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <a href="mailto:ut_vn_opreport@blm.gov">ut_vn_opreport@blm.gov</a> .
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO<sub>x</sub> per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

**SITE SPECIFIC COAs**

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horse power must not emit more than 2 grams of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower-hour.
- All new and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gram of NO<sub>x</sub> per horsepower-hour.
- Construction or drilling is not allowed for the Bonanza 1023-5M and Bonanza 1023-5P pads from January 1 – August 31 to minimize impacts during golden eagle nesting.
- If it is anticipated that construction or drilling will occur during the given timing restriction, a BLM or qualified biologist shall be notified to conduct surveys for raptors. Depending upon the results of the surveys, permission to proceed may or may not be granted by the Authorized Officer.
- All reclamation will comply with the Green River Reclamation Guidelines
- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established
- Noxious and invasive weeds will be controlled throughout the area of project disturbance.

- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an integrated pest management program is applicable, coordination has been undertaken with the state and local management program (if existing). A copy of the pest management plan will be submitted for each project.
- A pesticide use permit (PUP) will be obtained for the project, if applicable.
- A permitted paleontologist is to be present to monitor construction at well pads 1023-5C, 5D, 5K, 5L, 5M and 5P during all surface disturbing activities: examples include the following building of the well pad, access road, and pipelines.
- The best method to avoid entrainment is to pump from an off-channel location – one that does not connect to the river during high spring flows. An infiltration gallery constructed in a BLM and Service approved location is best.
- If the pump head is located in the river channel where larval fish are known to occur, the following measures apply:
  - a. do not situate the pump in a low-flow or no-flow area as these habitats tend to concentrate larval fishes;
  - b. limit the amount of pumping, to the greatest extent possible, during that period of the year when larval fish may be present (April 1 to August 31); and
  - c. limit the amount of pumping, to the greatest extent possible, during the pre-dawn hours as larval drift studies indicate that this is a period of greatest daily activity.
- Screen all pump intakes with 3/32” mesh material.
- Approach velocities for intake structures will follow the National Marine Fisheries Service’s document “Fish Screening Criteria for Anadromous Salmonids”. For projects with an in-stream intake that operate in stream reaches where larval fish may be present, the approach velocity will not exceed 0.33 feet per second (ft/s).
- Report any fish impinged on the intake screen to the Service (801.975.3330) and the Utah Division of Wildlife Resources:
  - Northeastern Region
  - 152 East 100 North, Vernal, UT 84078
  - Phone: (435) 781-9453
- Discovery Stipulation: Re-initiation of section 7 consultation with the USFWS will be sought immediately if any loss of plants or occupied habitat for Pariette cactus or Uinta Basin hookless cactus is anticipated as a result of project activities.

***DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

**SITE SPECIFIC DRILLING PLAN COA's:**

1. Gamma ray log shall be run from Total Depth to Surface.

**Variations Granted:**

**Air Drilling**

- Properly lubricated and maintained rotating head. Variance granted to use a properly maintained and lubricated diverter bowl in place of a rotating head.
- Blooie line discharge 100' from the well bore. Variance granted for blooie line discharge to be 45' from the well bore.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for truck/trailer mounted air compressors located 40' from the well bore.
- In lieu of mud products on location, Kerr McGee will fill the reserve pit with water for the kill medium and will utilize a skid pump near the reserve pit to supply the water to the well bore if necessary.
- Automatic igniter. Variance granted for igniter, due to there being no productive formations encountered while air drilling.
- FIT test. Variance granted due to well known geology and problems that can occur with the FIT test.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:**

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.

- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned.
- Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to [UT\\_VN\\_Welllogs@BLM.gov](mailto:UT_VN_Welllogs@BLM.gov). This submission will supersede the requirement for submittal of paper logs to the BLM.**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at [www.ONRR.gov](http://www.ONRR.gov).
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  5. LEASE DESIGNATION AND SERIAL NUMBER: UTU33433
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: BONANZA 1023-5E2AS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047520950000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6511  9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0529 FNL 0490 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S	COUNTY: UINTAH  STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 8/16/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU TRIPLE A BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'.  
 RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CEMENT WITH 28 SACKS READY MIX. SPUD WELL LOCATION ON AUGUST 16, 2012 AT 14:30 HRS.

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 August 20, 2012**

NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst
SIGNATURE N/A	DATE 8/20/2012	

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG  
 Submitted By CARA MAHLER Phone Number 720.929.6029  
 Well Name/Number BONANZA 1023-5E2AS  
 Qtr/Qtr NWNW Section 5 Township 10S Range 23E  
 Lease Serial Number UTU33433  
 API Number 4304752095

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 08/16/2012 15:00 HRS AM  PM

Casing – Please report time casing run starts, not cementing times.

- Surface Casing
- Intermediate Casing
- Production Casing
- Liner
- Other

Date/Time 09/05/2012 08:00 HRS AM  PM

BOPE

- Initial BOPE test at surface casing point
- BOPE test at intermediate casing point
- 30 day BOPE test
- Other

**RECEIVED**  
**AUG 15 2012**  
 DIV. OF OIL, GAS & MINING

Date/Time \_\_\_\_\_ AM  PM

**Remarks** ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT  
435.828.0986 OR LOVEL YOUNG AT 435.781.7051

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: KERR MCGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995  
 Address: P.O. Box 173779  
city DENVER  
state CO zip 80217 Phone Number: (720) 929-6304

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752095	Bonanza 1023-5E2AS		NWNW	5	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	9999	18676	8/16/2012			8/20/2012	
<b>Comments:</b> MIRU TRIPLE A BUCKET RIG. WSMVD SPUD WELL LOCATION ON 8/16/2012 AT 14:30 HRS. BHL: SWNW —							

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752096	Bonanza 1023-6A1CS		NWNW	5	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	9999	18677	8/17/2012			8/20/2012	
<b>Comments:</b> MIRU TRIPLE A BUCKET RIG. WSMVD SPUD WELL LOCATION ON 8/17/2012 AT 07:30 HRS. BHL: S6 none —							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<b>Comments:</b>							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

JAIME SCHARNOWSKE

Name (Please Print) Jaime Scharnowske

Signature  
REGULATORY ANALYST 8/20/2012

Title Date

RECEIVED  
AUG 20 2012

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  5. LEASE DESIGNATION AND SERIAL NUMBER: UTU33433
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  7. UNIT or CA AGREEMENT NAME: PONDEROSA
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: BONANZA 1023-5E2AS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047520950000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6514  9. FIELD and POOL or WILDCAT: MATRIL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0529 FNL 0490 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S	COUNTY: UINTAH  STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/18/2012  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE  <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The Operator requests approval for changes in the drilling plan. Specifically, the Operator requests approval for a FIT wavier, closed loop drilling option and a production casing change. The production casing change includes a switch from 4-1/2 inch I-80 11.6 LB BTC/LTC casing to 4-1/2 inch I-80 11.6 LB Ultra DQX/LTC casing. All other aspects of the previously approved drilling plan will not change. Thank you.

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining**

Date: September 25, 2012

By: *Derek Quist*

NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I
SIGNATURE N/A	DATE 9/18/2012	

Requested Drilling Options:

Kerr-McGee will use either a closed loop drilling system that will require one pit and one cuttings storage area to be constructed on the drilling pad or a traditional drilling operation with one pit used for drilling and completion operations. The cuttings storage area will be used to contain only the de-watered drill cuttings and will be lined and bermed to prevent any liquid runoff. The drill cuttings will be buried in the completion pit once completion operations are completed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit will be lined with a synthetic material 20 mil or thicker and will be used for the completing of the wells on the pad or used as part of our Aandarko Completions Transportation System (ACTS). Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completions pit.

If Kerr-McGee does not use a closed loop drilling system, it will construct a traditional drilling/completions pit to contain drill cuttings and for use in completion operations. The pit will be lined with a synthetic material 20 mil or thicker. The drill cuttings will be buried in the pit using traditional pit closure standards.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU33433
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> PONDEROSA
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> BONANZA 1023-5E2AS
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047520950000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6511  <b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0529 FNL 0490 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S	<b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/2/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

No Activity for the month of September 2012. Well TD at 2,515.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 October 03, 2012

<b>NAME (PLEASE PRINT)</b> Lindsey Frazier	<b>PHONE NUMBER</b> 720 929-6857	<b>TITLE</b> Regulatory Analyst II
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/2/2012	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU33433
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> PONDEROSA
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> BONANZA 1023-5E2AS
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0529 FNL 0490 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S		<b>9. API NUMBER:</b> 43047520950000
<b>5. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/5/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CHANGE WELL NAME	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. No Activity for the month of October 2012. Well TD at 2,526.		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY          November 05, 2012</b>		
<b>NAME (PLEASE PRINT)</b> Jaime Scharnowske	<b>PHONE NUMBER</b> 720 929-6304	<b>TITLE</b> Regularatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/5/2012	

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# XTREME 12  
Submitted By DALTON KING Phone Number 435- 828-0985  
Well Name/Number BONANZA 1023-5E2AS  
Qtr/Qtr SW/NW Section 5 Township 10 S Range 23E  
Lease Serial Number UTU 33433  
API Number 43-047-52095

Casing – Time casing run starts, not cementing times.

- Production Casing
- Other

Date/Time 11/21/2012 01:00 AM  PM

BOPE

- Initial BOPE test at surface casing point
- Other

Date/Time \_\_\_\_\_ AM  PM

RECEIVED

NOV 20 2012

DIV. OF OIL, GAS & MINING

Rig Move

Location To: BONANZA 1023-5D3AS

Date/Time 11/21/2012 15:00 AM  PM

Remarks TIME IS ESTIMATED

---

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU33433
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> PONDEROSA
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> BONANZA 1023-5E2AS
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047520950000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6511  <b>9. FIELD and POOL or WILDCAT:</b> MATHEW BUTTES
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0529 FNL 0490 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S	<b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/22/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

FINISHED DRILLING TO 8,677' ON 11/22/2012. CEMENTED  
 PRODUCTION CASING. RELEASED XTC 12 RIG ON 11/22/2012. DETAILS  
 OF CASING AND CEMENT WILL BE INCLUDED WITH THE WELL  
 COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION  
 ACTIVITIES

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 November 28, 2012

<b>NAME (PLEASE PRINT)</b> Lindsey Frazier	<b>PHONE NUMBER</b> 720 929-6857	<b>TITLE</b> Regulatory Analyst II
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/26/2012	

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: KERR MCGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995  
 Address: P.O. Box 173779  
city DENVER  
state CO zip 80217 Phone Number: (720) 929-6304

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Various	Ponderosa Wells						UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
	18421	18519				5/1/2012	
<b>Comments:</b> Move the attached wells into the Ponderosa unit. All wells are WSMVD.						11/16/2012	

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<b>Comments:</b>							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<b>Comments:</b>							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

JAIME SCHARNOWSKE

Name (Please Print)

*Jaime Scharnowske*

Signature

REGULATORY ANALYST

11/8/2012

Title

Date

**RECEIVED**

**NOV 08 2012**

Well Name	Quarter/Quarter	Section	Township	Range	APUI Number	County	New Entity Number	Formation
BONANZA 1023-6J2AS	NESW	6	10S	23E	4304751465	Uintah	18519	WSMVD
BONANZA 1023-6K1CS	NESW	6	10S	23E	4304751466	Uintah	18519	WSMVD
BONANZA 1023-6K2BS	NESW	6	10S	23E	4304751467	Uintah	18519	WSMVD
BONANZA 1023-6K2CS	NESW	6	10S	23E	4304751468	Uintah	18519	WSMVD
BONANZA 1023-6L2AS	NESW	6	10S	23E	4304751469	Uintah	18519	WSMVD
BONANZA 1023-6L2DS	NESW	6	10S	23E	4304751470	Uintah	18519	WSMVD
BONANZA 1023-6O1BS	SWSE	6	10S	23E	4304751473	Uintah	18519	WSMVD
BONANZA 1023-6O2DS	SWSE	6	10S	23E	4304751474	Uintah	18519	WSMVD
BONANZA 1023-6O3AS	SWSE	6	10S	23E	4304751475	Uintah	18519	WSMVD
BONANZA 1023-6P2BS	SWSE	6	10S	23E	4304751476	Uintah	18519	WSMVD
BONANZA 1023-6P3CS	SWSE	6	10S	23E	4304751478	Uintah	18519	WSMVD
BONANZA 1023-5J2DS	NESW	5	10S	23E	4304752063	Uintah	18519	WSMVD
BONANZA 1023-5K1BS	NESW	5	10S	23E	4304752064	Uintah	18519	WSMVD
BONANZA 1023-5K1CS	NESW	5	10S	23E	4304752065	Uintah	18519	WSMVD
BONANZA 1023-5K3DS	NESW	5	10S	23E	4304752066	Uintah	18519	WSMVD
BONANZA 1023-5L1DS	NESW	5	10S	23E	4304752067	Uintah	18519	WSMVD
BONANZA 1023-5L4AS	NESW	5	10S	23E	4304752068	Uintah	18519	WSMVD
BONANZA 1023-5L4DS	NESW	5	10S	23E	4304752069	Uintah	18519	WSMVD
BONANZA 1023-5O2AS	NESW	5	10S	23E	4304752070	Uintah	18519	WSMVD
BONANZA 1023-5E3BS	SWNW	5	10S	23E	4304752071	Uintah	18519	WSMVD
BONANZA 1023-5E3CS	SWNW	5	10S	23E	4304752072	Uintah	18519	WSMVD
BONANZA 1023-5L1AS	SWNW	5	10S	23E	4304752073	Uintah	18519	WSMVD
BONANZA 1023-5L3BS	SWNW	5	10S	23E	4304752074	Uintah	18519	WSMVD
BONANZA 1023-5M1AS	SWSW	5	10S	23E	4304752075	Uintah	18519	WSMVD
BONANZA 1023-5M1CS	SWSW	5	10S	23E	4304752076	Uintah	18519	WSMVD
BONANZA 1023-5M3BS	SWSW	5	10S	23E	4304752077	Uintah	18519	WSMVD
BONANZA 1023-5M3CS	SWSW	5	10S	23E	4304752078	Uintah	18519	WSMVD
BONANZA 1023-5N3CS	SWSW	5	10S	23E	4304752079	Uintah	18519	WSMVD
BONANZA 1023-5O4BS	SESE	5	10S	23E	4304752082	Uintah	18519	WSMVD
BONANZA 1023-5P1AS	SESE	5	10S	23E	4304752083	Uintah	18519	WSMVD
BONANZA 1023-5P1CS	SESE	5	10S	23E	4304752084	Uintah	18519	WSMVD
BONANZA 1023-5P4CS	SESE	5	10S	23E	4304752085	Uintah	18519	WSMVD
BONANZA 1023-5C4AS	NENW	5	10S	23E	4304752089	Uintah	18519	WSMVD
BONANZA 1023-5F2CS	NENW	5	10S	23E	4304752090	Uintah	18519	WSMVD
BONANZA 1023-5F3AS	NENW	5	10S	23E	4304752091	Uintah	18519	WSMVD
BONANZA 1023-5C2CS	NWNW	5	10S	23E	4304752092	Uintah	18519	WSMVD
BONANZA 1023-5D2DS	NWNW	5	10S	23E	4304752093	Uintah	18519	WSMVD
BONANZA 1023-5D3AS	NWNW	5	10S	23E	4304752094	Uintah	18519	WSMVD
BONANZA 1023-5E2AS	NWNW	5	10S	23E	4304752095	Uintah	18519	WSMVD
BONANZA 1023-6A1CS	NWNW	5	10S	23E	4304752096	Uintah	18519	WSMVD
BONANZA 1023-6I3AS	SWNW	5	10S	23E	4304752387	Uintah	18519	WSMVD
BONANZA 11-2	SWNW	11	10S	23E	4304734773	Uintah	18519	WSMVD
BONANZA 1023-6E4AS	SENE	6	10S	23E	4304751453	Uintah	18519	WSMVD
BONANZA 1023-6F1AS	SENE	6	10S	23E	4304751454	Uintah	18519	WSMVD
BONANZA 1023-6F1CS	SENE	6	10S	23E	4304751455	Uintah	18519	WSMVD
BONANZA 1023-6F4CS	SENE	6	10S	23E	4304751456	Uintah	18519	WSMVD
BONANZA 1023-6G2AS	SENE	6	10S	23E	4304751457	Uintah	18519	WSMVD
BONANZA 1023-6G4CS	SENE	6	10S	23E	4304751458	Uintah	18519	WSMVD
BONANZA 1023-6A3DS	SENE	6	10S	23E	4304751459	Uintah	18519	WSMVD
BONANZA 1023-6G1DS	SENE	6	10S	23E	4304751460	Uintah	18519	WSMVD
BONANZA 1023-6H1BS	SENE	6	10S	23E	4304751461	Uintah	18519	WSMVD
BONANZA 1023-6H2CS	SENE	6	10S	23E	4304751462	Uintah	18519	WSMVD
BONANZA 1023-6I2AS	SENE	6	10S	23E	4304751463	Uintah	18519	WSMVD
BONANZA 1023-6I3DS	SWSE	6	10S	23E	4304751471	Uintah	18519	WSMVD
BONANZA 1023-6J4AS	SWSE	6	10S	23E	4304751472	Uintah	18519	WSMVD
BONANZA 1023-6P3AS	SWSE	6	10S	23E	4304751477	Uintah	18519	WSMVD

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU33433
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>7. UNIT or CA AGREEMENT NAME:</b> PONDEROSA
<b>1. TYPE OF WELL</b> Gas Well		<b>8. WELL NAME and NUMBER:</b> BONANZA 1023-5E2AS
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>9. API NUMBER:</b> 43047520950000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6511	<b>9. FIELD and POOL or WILDCAT:</b> SOUTHERN BUTTES
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0529 FNL 0490 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S		<b>COUNTY:</b> UINTAH
		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 1/2/2013	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION  <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	
	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
Started completing the well. Well TD at 8,677		
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 03, 2013</b>		
<b>NAME (PLEASE PRINT)</b> Lindsey Frazier	<b>PHONE NUMBER</b> 720 929-6857	<b>TITLE</b> Regulatory Analyst II
<b>SIGNATURE</b> N/A		<b>DATE</b> 1/2/2013

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU33433	
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	
<b>7. UNIT or CA AGREEMENT NAME:</b> PONDEROSA	
<b>1. TYPE OF WELL</b> Gas Well	
<b>8. WELL NAME and NUMBER:</b> BONANZA 1023-5E2AS	
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	
<b>9. API NUMBER:</b> 43047520950000	
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 <span style="float: right;"><b>PHONE NUMBER:</b> 720 929-6511</span>	
<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0529 FNL 0490 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S	
<b>COUNTY:</b> UINTAH	
<b>STATE:</b> UTAH	

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/4/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Started completing the well. Well TD at 8,677

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 February 13, 2013**

<b>NAME (PLEASE PRINT)</b> Lindsey Frazier	<b>PHONE NUMBER</b> 720 929-6857	<b>TITLE</b> Regulatory Analyst II
<b>SIGNATURE</b> N/A	<b>DATE</b> 2/4/2013	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU33433	
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	
<b>7. UNIT or CA AGREEMENT NAME:</b> PONDEROSA	
<b>1. TYPE OF WELL</b> Gas Well	
<b>8. WELL NAME and NUMBER:</b> BONANZA 1023-5E2AS	
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	
<b>9. API NUMBER:</b> 43047520950000	
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 <span style="float: right;"><b>PHONE NUMBER:</b> 720 929-6511</span>	
<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0529 FNL 0490 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S	
<b>COUNTY:</b> UINTAH	
<b>STATE:</b> UTAH	

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/4/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Started completing the well. Well TD at 8,677

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 February 13, 2013**

<b>NAME (PLEASE PRINT)</b> Lindsey Frazier	<b>PHONE NUMBER</b> 720 929-6857	<b>TITLE</b> Regulatory Analyst II
<b>SIGNATURE</b> N/A	<b>DATE</b> 2/4/2013	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU33433
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> PONDEROSA
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> BONANZA 1023-5E2AS
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047520950000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6511  <b>9. FIELD and POOL or WILDCAT:</b> MATHEW BUTTES
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0529 FNL 0490 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S	<b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/4/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Started completing the well. Well TD at 8,677

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 March 05, 2013

<b>NAME (PLEASE PRINT)</b> Lindsey Frazier	<b>PHONE NUMBER</b> 720 929-6857	<b>TITLE</b> Regulatory Analyst II
<b>SIGNATURE</b> N/A	<b>DATE</b> 3/4/2013	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU33433	
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	
<b>7. UNIT or CA AGREEMENT NAME:</b> PONDEROSA	
<b>1. TYPE OF WELL</b> Gas Well	
<b>8. WELL NAME and NUMBER:</b> BONANZA 1023-5E2AS	
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	
<b>9. API NUMBER:</b> 43047520950000	
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 <span style="float: right;"><b>PHONE NUMBER:</b> 720 929-6511</span>	
<b>9. FIELD and POOL or WILDCAT:</b> MATHEW BUTTES	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0529 FNL 0490 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S	
<b>COUNTY:</b> UINTAH	
<b>STATE:</b> UTAH	

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/3/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Started completing the well. Well TD at 8,677

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 April 03, 2013**

<b>NAME (PLEASE PRINT)</b> Teena Paulo	<b>PHONE NUMBER</b> 720 929-6236	<b>TITLE</b> Staff Regulatory Specialist
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/3/2013	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU33433	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	
		<b>7. UNIT or CA AGREEMENT NAME:</b> PONDEROSA	
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> BONANZA 1023-5E2AS		
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047520950000		
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6511	<b>9. FIELD and POOL or WILDCAT:</b> MATERIAL BUTTES	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0529 FNL 0490 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S	<b>COUNTY:</b> UINTAH		
	<b>STATE:</b> UTAH		
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 5/3/2013	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION  <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER		<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
Started completing the well. Well TD at 8,677			
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 03, 2013</b>			
<b>NAME (PLEASE PRINT)</b> Teena Paulo	<b>PHONE NUMBER</b> 720 929-6236	<b>TITLE</b> Staff Regulatory Specialist	
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/3/2013		

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU33433
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> PONDEROSA
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> BONANZA 1023-5E2AS
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047520950000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6511  <b>9. FIELD and POOL or WILDCAT:</b> MATHEW BUTTES
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0529 FNL 0490 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S	<b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 5/8/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 05/08/2013. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 May 16, 2013

<b>NAME (PLEASE PRINT)</b> Teena Paulo	<b>PHONE NUMBER</b> 720 929-6236	<b>TITLE</b> Staff Regulatory Specialist
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/9/2013	

Form 3160-4  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. Lease Serial No.  
UTU33433

1a. Type of Well  Oil Well  Gas Well  Dry  Other  
 b. Type of Completion  New Well  Work Over  Deepen  Plug Back  Diff. Resvr.  
 Other \_\_\_\_\_

6. If Indian, Allottee or Tribe Name \_\_\_\_\_

7. Unit or CA Agreement Name and No.  
UTU88209A

2. Name of Operator **KERR MCGEE OIL&GAS ONSHORE** Contact: **TEENA PAULO**  
 Email: **teena.paulo@anadarko.com**

8. Lease Name and Well No.  
**BONANZA 1023-5E2AS**

3. Address **PO BOX 173779** 3a. Phone No. (include area code)  
**DENVER, CO 80217** Ph: **720-929-6236**

9. API Well No. **43-047-52095**

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
 At surface **NWNW 529FNL 490FWL 39.983791 N Lat, 109.358379 W Lon**  
 At top prod interval reported below **SWNW 1450FNL 373FWL**  
 At total depth **SWNW 1453FNL 369FWL**

10. Field and Pool, or Exploratory  
**NATURAL BUTTES**

11. Sec., T., R., M., or Block and Survey or Area **Sec 5 T10S R23E Mer SLB**

12. County or Parish **UINTAH** 13. State **UT**

14. Date Spudded **08/16/2012** 15. Date T.D. Reached **11/22/2012** 16. Date Completed **05/08/2013**  
 D & A  Ready to Prod.

17. Elevations (DF, KB, RT, GL)\*  
**5254 KB**

18. Total Depth: MD **8677** 19. Plug Back T.D.: MD **8606** 20. Depth Bridge Plug Set: MD  
 TVD **8534** TVD **8462** TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
**SD/DSN/ACTR-BHV-RPM-RABL**

22. Was well cored?  No  Yes (Submit analysis)  
 Was DST run?  No  Yes (Submit analysis)  
 Directional Survey?  No  Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7	0	40		28			
11.000	8.625 IJ-55	28.0	15	2497		900		0	
7.875	4.500 I-80	11.6	15	8653		1575		600	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	8000							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	7686	8525	7686 TO 8525	0.360	86	OPEN
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
7686 TO 8525	PUMP 4,116 BBLs SLICK H2O & 83,982 LBS 30/50 OTTAWA SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
05/08/2013	05/09/2013	24		0.0	1756.0	0.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	SI 1387	1952.0		0	1756	0		PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI								

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #209323 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(Sold, used for fuel, vented, etc.)  
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER BIRD'S NEST MAHOGANY WASATCH MESAVERDE	1067 1452 2057 4417 6538

32. Additional remarks (include plugging procedure):

The first 210 ft of the surface hole was drilled with a 12 1/4 inch bit. The remainder of the surface hole was drilled with an 11 inch bit. DQX csg was run from surface to 5011 ft; LTC csg was run from 5011 ft. to 8653 ft. Attached is the chronological well history, perforation report and final survey.

33. Circle enclosed attachments:

- 1. Electrical/Mechanical Logs (1 full set req'd)
- 2. Geologic Report
- 3. DST Report
- 4. Directional Survey
- 5. Sundry Notice for plugging and cement verification
- 6. Core Analysis
- 7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #209323 Verified by the BLM Well Information System.  
For KERR MCGEE OIL&GAS ONSHORE,LP, sent to the Vernal**

Name (please print) TEENA PAULO Title STAFF REGULATORY SPECIALIST

Signature (Electronic Submission) Date 06/03/2013

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***

RECEIVED: Jun. 04, 2013

**US ROCKIES REGION**  
**Operation Summary Report**

Well: BONANZA 1023-5E2AS GREEN				Spud Date: 9/20/2012			
Project: UTAH-UINTAH			Site: BONANZA 1023-5D PAD			Rig Name No: PROPETRO 12/12, XTC 12/12	
Event: DRILLING			Start Date: 8/30/2012		End Date: 11/22/2012		
Active Datum: RKB @5,254.00usft (above Mean Sea Level)				UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/529/W/0/490/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/20/2012	12:30 - 13:00	0.50	PRPSPD	01	C	P		PRE SPUD JOB SAFETY MEETING FINISH PICKING UP BHA. PICK UP NOV 1.83 DEGREE BENT MOTOR (RUN # 4) - .17 REV/GAL SN (775-24-A201). PICK UP 12.25 Q506 DRILL BIT RUN 37 SN (7020485)
	13:00 - 14:30	1.50	DRLSUR	02	B	P		SPUD 09/20/2012 13:00. DRILL 12.25" HOLE 44'-210' (166', 110'/PER HOUR). 12.25 in. BIT ON 33 th RUN. WEIGHT ON BIT 5-15 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF (BOTTOM) 800/600. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROTATE 20/20/20 K. DRAG 0 K.  CIRCULATE CLOSED LOOP SYSTEM WITH 8.5# WATER. DRILL DOWN TO 210' WITH 6" DRILL COLLARS.
	14:30 - 16:00	1.50	DRLSUR	06	A	P		CIRC 15 MINUTES AND, TRIP OUT TO CHANGE ASSEMBLY. PRE JOB SAFETY MEETING, LAY DOWN 6" DRILL COLLARS, BREAK 12 1/4" BIT. MAKE UP Q506F 11" BIT (3RD RUN) (SN 7138966) PICK UP 8" DIRECTIONAL ASSEMBLY. I NSTALL EM TOOL, TRIP IN HOLE.
	16:00 - 0:00	8.00	DRLSUR	02	B	P		DRILL 11". SURFACE HOLE 210'-1150', (940', 117'/PER HOUR). WEIGHT ON BIT 15-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF(BOTTOM) 1050/850. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 30/22/28 K. DRAG 2 K.  SLIDING 15' PER 90'OF ROTATION GETTING 1.3 DEGREE BUILD RATES  CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME OVER BOTH SHAKERS NO HOLE ISSUES.

Operation Summary Report

Well: BONANZA 1023-5E2AS GREEN

Spud Date: 9/20/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5D PAD

Rig Name No: PROPETRO 12/12, XTC 12/12

Event: DRILLING

Start Date: 8/30/2012

End Date: 11/22/2012

Active Datum: RKB @5,254.00usft (above Mean Sea Level)

UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/529/W/0/490/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/21/2012	0:00 - 6:00	6.00	DRLSUR	02	B	P		<p>DRILL 11". SURFACE HOLE 1150'-1600', (450', 75'/PER HOUR).                      WEIGHT ON BIT 15-25 K.                      STROKES PER MINUTE 120 GALLONS PER MINUTE 491.                      PRESSURE ON/OFF(BOTTOM) 1050/850.                      ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138.                      UP/DOWN/ ROT 68/49/58 K. DRAG 10 K.</p> <p>SLIDING 15' PER 90'OF ROTATION GETTING 1.3 DEGREE BUILD RATES</p> <p>CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER.                      RUNNING VOLUME OVER BOTH SHAKERS                      PUT AIR ON THE HOLE WITH 1800 CFM @ 1500'                      NO OTHER HOLE ISSUES.</p>
	6:00 - 17:30	11.50	DRLSUR	02	B	P		<p>DRILL 11". SURFACE HOLE 1600'-2515', (915', 79'/PER HOUR).                      WEIGHT ON BIT 15-25 K.                      STROKES PER MINUTE 120 GALLONS PER MINUTE 491.                      PRESSURE ON/OFF(BOTTOM) 1250/1050.                      ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138.                      UP/DOWN/ ROT 80/60/70 K. DRAG 10 K.</p> <p>SLIDING 15' PER 90'OF ROTATION GETTING 1.3 DEGREE BUILD RATES</p> <p>CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER.                      RUNNING VOLUME OVER BOTH SHAKERS                      PUT AIR ON THE HOLE WITH 1800 CFM @ 1500'                      NO OTHER HOLE ISSUES.</p>
	17:30 - 20:30	3.00	DRLSUR	05	A	P		<p>CIRCULATE AND CONDITION HOLE, VOLUME IS CLEAN COMING OVER SHAKERS, 4 400 BBL UPRIGHT'S FULL AND 2 EMPTY, MUD TANKS FULL, HOLE IS STILL LOSING VOLUME LOSING VOLUME.</p>
	20:30 - 0:00	3.50	CSGSUR	06	D	P		<p>TRIP OUT OF HOLE, LAY DOWN DRILL STRING, BOTTOM HOLE ASSEMBLY, DIRECTIONAL TOOLS, MOTOR AND, BIT.                      CLEAR TOOL AREA.</p>
9/22/2012	0:00 - 0:30	0.50	CSGSUR	06	D	P		<p>TRIP OUT OF HOLE, LAY DOWN DRILL STRING.                      PULL DIVERTER HEAD RUBBER.                      LAY DOWN BOTTOM HOLE ASSEMBLY,                      DIRECTIONAL TOOLS, MOTOR AND, BIT.                      CLEAR TOOL AREA.</p>
	0:30 - 2:00	1.50	CSGSUR	06	A	P		<p>PRE JOB SAFETY MEETING, MOVE PIPE RACKS AND CATWALK.                      RIG UP TO RUN SURFACE CASING.                      CLEAR UNRELATED TOOLS.</p>

Operation Summary Report

Well: BONANZA 1023-5E2AS GREEN		Spud Date: 9/20/2012	
Project: UTAH-UINTAH		Site: BONANZA 1023-5D PAD	Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING		Start Date: 8/30/2012	End Date: 11/22/2012
Active Datum: RKB @5,254.00usft (above Mean Sea Level)		UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/529/W/0/490/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	2:00 - 4:00	2.00	CSGSUR	12	C	P		<p>RUN 56 JOINTS OF 8-5/8". 28# J-55 LTC CASING. RAN 1 CENTRALIZER ON FIRST THREE JOINTS, AND EVERY OTHER JOINT FOR 2 JOINTS FOR A TOTAL OF 5 CENTRALIZERS.</p> <p>RUN A TOTAL OF 56 JOINTS. RUN CASING TO BOTTOM WITH NO PROBLEMS.</p> <p>SET FLOAT SHOE @ 2485.83' KB. SET TOP OF BAFFLE PLATE @ 2439.65' KB.</p>
	4:00 - 6:30	2.50	CSGSUR	12	E	P		<p>PRE JOB SAFETY MEETING, RAN 200 ft OF 1". PIPE DOWN BACK-SIDE OF CASING. PRESSURE TEST LINES TO 2000 PSI.</p> <p>PUMP 140 BBLS OF WATER AHEAD. MIX AND PUMP 20 BBLS OF 8.5# GEL WATER AHEAD. MIX AND PUMP (300 sx) 61.4 BBLS OF 15.8.8# 1.15 YIELD. DROP PLUG ON FLY,</p> <p>DISPLACE W/ 152 BBLS OF H2O, NO RETURNS THROUGH OUT JOB, FINAL LIFT OF 150 PSI AT 3 BBL/MINUTE. BUMP THE PLUGG WITH 450 PSI, HELD 450 PSI FOR 5 MINUTES, TESTED FLOAT AND FLOAT HELD.</p> <p>SHUT DOWN AND WASH UP.</p>
	6:30 - 8:00	1.50	CSGSUR	12	E	P		<p>PUMP CEMENT DOWN ONE INCH PIPE WITH 150 sx (30.7 bbls.)SAME CEMENT NO RETURNS TO SURFACE. SHUT DOWN AND WASH UP. WAIT 1.5 HOURS ON CEMENT, CEMENT DOWN BACKSIDE W/ 150 sx (30.7 bbls.) SAME CEMENT NO RETURNS TO SURFACE. WAIT 1.5 HOURS ON CEMENT, CEMENT DOWN BACKSIDE W/ 150 sx (30.7 bbls.) SAME CEMENT NO RETURNS TO SURFACE.</p> <p>WAIT 1.5 HOURS ON CEMENT, CEMENT DOWN BACKSIDE W/ 150 sx (20.4 bbls.) SAME CEMENT 3 BBLS RETURNS TO SURFACE. RIG DOWN CEMENTERS.</p> <p>(CEMENT JOB FINISHED AT 12:00 hrs. 09/22/2012)</p>
11/15/2012	22:00 - 22:30	0.50	MIRU	01	C	P		<p>RELEASE RIG AT 08:00 hrs. 09/22/2012 SKID TO THE BONANZA 1023-5E2AS AND CENTER THE RIG</p>
	22:30 - 23:00	0.50	PRSPD	14	A	P		<p>NIPPLE UP THE BOP</p>
	23:00 - 0:00	1.00	PRSPD	15	A	P		<p>HELD A SAFETY MEETING AND RIGGED UP THE PRESSURE TESTING TRUCK</p>

## Operation Summary Report

Well: BONANZA 1023-5E2AS GREEN

Spud Date: 9/20/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5D PAD

Rig Name No: PROPETRO 12/12, XTC 12/12

Event: DRILLING

Start Date: 8/30/2012

End Date: 11/22/2012

Active Datum: RKB @5,254.00usft (above Mean Sea Level)

UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/529/W/0/490/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
11/16/2012	0:00 - 5:30	5.50	PRPSPD	15	A	P		HOLD SAFETY MEETING. TEST TOP DRIVE VALVE, I-BOP VALVE, FLOOR VALVE, DART VALVE, PIPE AND BLIND RAMS, INSIDE AND OUTSIDE KILL LINE VALVES INSIDE OUTSIDE CHOKE LINE VALVE, HCR VALVE, CHOKE LINE, CHOKE MANIFOLD VALVES AND CHOKES TO 5000 PSI FOR 10 MINUTES AND 250 PSI FOR 5 MINUTES. TEST ANNULAR TO 2500 PSI FOR 10 MIN AND 250 PSI FOR 5 MINUTES. TESTING CASING TO 1500 PSI FOR 30 MINUTES.
	5:30 - 6:00	0.50	PRPSPD	07	A	P		RIG SERVICE
	6:00 - 7:00	1.00	PRPSPD	14	B	P		INSTALL THE WEAR BUSHING AND DO A PRE SPUD INSPECTION
	7:00 - 11:00	4.00	PRPSPD	06	A	P		PICKED UP AND SCRIBED THE BHA THEN TRIPPED IN THE HOLE.
	11:00 - 12:00	1.00	PRPSPD	14	B	P		STOPPED TO HELP CAMERON PULL OUT THE FLANGE AND PUT IN A WELL CAP SO WE CAN MONITOR THE PRESSURES ON THE BONANZA 1023-6A1CS
	12:00 - 13:00	1.00	PRPSPD	06	A	P		FINISHED PICKING UP DRILL PIPE AND TAGGED CEMENT AT 2398'
	13:00 - 14:00	1.00	DRLPRC	02	F	P		DRILLED THE SHOE TRACK
	14:00 - 17:30	3.50	DRLPRC	02	B	P		DRILL SLIDE 2526' - 2963' (437' @ 124.8'/HR) WEIGHT ON BIT 12-17K. AVERAGE WEIGHT ON BIT 15K. ROTARY RPM 50, MUD MOTOR RPM 108. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 1320/1620. DIFFERENTIAL 300. TORQUE HIGH/LOW 4500/3000. OFF BOTTOM TORQUE 2500 STRING WEIGHT UP/DOWN/ROT 80/60/70. DRAG 10K. BIT POSITION : 2' LOW & 2' LEFT OF PLAN LINE SLIDE 84' AT 72'/HR. SLIDE 34.15% ROTATE 65.85%. NOV RUNNING CONE WITH 2 CENTRIFUGES ON DEWATER. WT 8.6 VIS 26.
								///// DRILLING WITH WATER /////
								USED 25 BBLS DRILL WATER FOR HOLE VOLUME. LOST 25 BBLS DRILL WATER INTO FORMATION. (LOSING 7 BBLS HR) PUMP LCM SWEEPS TO HELP WITH LOSSES. (ADD 0 BBLS OF DRILL WATER TO PITS FOR VOLUME) NO FLARE
	17:30 - 18:00	0.50	DRLPRC	07	A	P		RIG SERVICE

Operation Summary Report

Well: BONANZA 1023-5E2AS GREEN		Spud Date: 9/20/2012	
Project: UTAH-UINTAH		Site: BONANZA 1023-5D PAD	Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING		Start Date: 8/30/2012	End Date: 11/22/2012
Active Datum: RKB @5,254.00usft (above Mean Sea Level)		UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/529/W/0/490/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	18:00 - 0:00	6.00	DRLPRC	07	A	P		<p>DRILL SLIDE 2963'- 3627' (664' @ 110.6'/HR)                      WEIGHT ON BIT 15-18K. AVERAGE WEIGHT ON BIT 17K.                      ROTARY RPM 50, MUD MOTOR RPM 108.                      STROKES PER MINUTE 115 GALLONS PER MINUTE 517.                      OFF/ON PSI 1350/1650.                      DIFFERENTIAL 300.                      TORQUE HIGH/LOW 4500/3000. OFF BOTTOM TORQUE 2500                      STRING WEIGHT UP/DOWN/ROT 100/75/85. DRAG 10K.                      BIT POSITION : 3' LOW &amp; 10' LEFT OF PLAN LINE SLIDE 50' AT 66'/HR.                      SLIDE 12.5% ROTATE 87.5%.                      NOV RUNNING CONE WITH 2 CENTRIFUGES ON DEWATER.                      WT 9.0 VIS 31.</p> <p>/// STARTED ADDING FLO ZAN /// TO THE MUD SYSTEM @ 1.5 HR./ SK.                      AS PER ENGINEERING AND ANCHOR RECOMENDATION</p> <p>USED 40 BBLS DRILL WATER FOR HOLE VOLUME.                      LOST 24 BBLS DRILL WATER INTO FORMATION. (LOSING 8 BBLS HR)                      PUMP LCM SWEEPS TO HELP WITH LOSSES. (ADD 0 BBLS OF DRILL WATER TO PITS FOR VOLUME)                      NO FLARE</p>

Operation Summary Report

Well: BONANZA 1023-5E2AS GREEN		Spud Date: 9/20/2012	
Project: UTAH-UINTAH		Site: BONANZA 1023-5D PAD	Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING		Start Date: 8/30/2012	End Date: 11/22/2012
Active Datum: RKB @5,254.00usft (above Mean Sea Level)		UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/529/W/0/490/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
11/17/2012	0:00 - 5:30	5.50	DRLPRC	02	B	P		<p>DRILL SLIDE 3627' - 3979' (352' @ 64'/HR)                      WEIGHT ON BIT 15-26K. AVERAGE WEIGHT ON BIT 20K.                      ROTARY RPM 50/65, MUD MOTOR RPM 108.                      STROKES PER MINUTE 115 GALLONS PER MINUTE 517.                      OFF/ON PSI 1400/1600.                      DIFFERENTIAL 200.                      TORQUE HIGH/LOW 4500/3000. OFF BOTTOM TORQUE 2500                      STRING WEIGHT UP/DOWN/ROT 100/75/85. DRAG 10K.                      BIT POSITION : 9'N &amp; 2' WEST CENTER                      SLIDE 80' AT 74'/HR.                      SLIDE 19% ROTATE 21%.                      NOV RUNNING 2 CENTRIFUGES ON DEWATER.                      WT 9.1 VIS 35.</p> <p>/// STARTED ADDING FLOW ZAN /// TO THE MUD SYSTEM @ 1.5 HR./ SK.                      AS PER ENGINEERING AND ANCHOR RECOMMENDATION                      PENETRATION RATE SLOWED DOWN AFTER GETTING THE FLOWZAN IN THE SYSTEM AND WE HAD TO ADJUST OUR PARAMETERS TO GET IT TO DRILL AT AN ACCEPTABLE RATE. I TALKED WITH BRIAN AND KENNY ABOUT THE PENETRATION RATE CHANGE WITH THE NEW MUD SYSTEM.</p> <p>USED 20 BBLS DRILL WATER FOR HOLE VOLUME.                      LOST 30 BBLS DRILL WATER INTO FORMATION. (LOSING 8 BBLS HR)                      PUMP LCM SWEEPS TO HELP CLEAN THE HOLE. (ADD 0 BBLS OF DRILL WATER TO PITS FOR VOLUME)                      NO FLARE                      RIG SERVICE</p>
	5:30 - 6:00	0.50	DRLPRC	07	A	P		

Operation Summary Report

Well: BONANZA 1023-5E2AS GREEN		Spud Date: 9/20/2012	
Project: UTAH-UINTAH		Site: BONANZA 1023-5D PAD	Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING		Start Date: 8/30/2012	End Date: 11/22/2012
Active Datum: RKB @5,254.00usft (above Mean Sea Level)		UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/529/W/0/490/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 17:30	11.50	DRLPRV	02	B	P		DRILL SLIDE 3979' - 4910' (931' @ 80.9'/HR) WEIGHT ON BIT 22-26K. AVERAGE WEIGHT ON BIT 24K. ROTARY RPM 60/65, MUD MOTOR RPM 108. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 1700/2100. DIFFERENTIAL 300. TORQUE HIGH/LOW 6000/4000. OFF BOTTOM TORQUE 3000 STRING WEIGHT UP/DOWN/ROT 110/80/95. DRAG 15K. BIT POSITION : 14'N & 9' WEST CENTER SLIDE 34' AT 68'/HR. SLIDE 4.35% ROTATE 95.65%. NOV RUNNING 2 CENTRIFUGES ON DEWATER. WT 9.2 VIS 35.  /// FLOW ZAN MUD SYSTEM ///  USED 54 BBLS DRILL WATER FOR HOLE VOLUME. LOST 50 BBLS DRILL WATER INTO FORMATION. (LOSING 8 BBLS HR) PUMP LCM SWEEPS TO HELP CLEAN THE HOLE. (ADD 100 BBLS OF DRILL WATER TO PITS FOR VOLUME) NO FLARE
	17:30 - 18:00	0.50	DRLPRV	07	A	P		RIG SERVICE
	18:00 - 19:00	1.00	DRLPRV	02	B	P		DRILL SLIDE 4910' - 5044' (134' @ 134"/HR) WEIGHT ON BIT 22-26K. AVERAGE WEIGHT ON BIT 24K. ROTARY RPM 60/65, MUD MOTOR RPM 108. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 1700/2100. DIFFERENTIAL 300. TORQUE HIGH/LOW 6000/4000. OFF BOTTOM TORQUE 3000 STRING WEIGHT UP/DOWN/ROT 110/80/95. DRAG 15K. BIT POSITION : 14'N & 10' WEST CENTER SLIDE 0' AT 0'/HR. SLIDE 0% ROTATE 100%. NOV RUNNING 2 CENTRIFUGES ON DEWATER. WT 9.2 VIS 35.  /// FLOW ZAN MUD SYSTEM ///  USED 6 BBLS DRILL WATER FOR HOLE VOLUME. LOST 5 BBLS DRILL WATER INTO FORMATION. (LOSING 5 BBLS HR) PUMP LCM SWEEPS TO HELP CLEAN THE HOLE. (ADD 0 BBLS OF DRILL WATER TO PITS FOR VOLUME) NO FLARE

Operation Summary Report

Well: BONANZA 1023-5E2AS GREEN		Spud Date: 9/20/2012	
Project: UTAH-UINTAH		Site: BONANZA 1023-5D PAD	Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING		Start Date: 8/30/2012	End Date: 11/22/2012
Active Datum: RKB @5,254.00usft (above Mean Sea Level)		UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/529/W/0/490/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	19:00 - 19:30	0.50	DRLPRV	05	C	P		PUMPED AN LCM SWEEP AROUND BEFORE TRIPPING OUT FOR THE GHOST REAMER
	19:30 - 0:00	4.50	DRLPRV	06	A	P		TRIPPED OUT AND REMOVED THE DRILLING RUBBER, INSTALLED THE GHOST REAMER 2000' ABOVE THE BIT, INSTALLED THE DRILLING RUBBER. THE TRIP OUT WITH THE DRILL PIPE DRUG INTERMITTENTLY AND WAS A BIT RATTY FEELING.
11/18/2012	0:00 - 0:30	0.50	DRLPRV	06	A	P		TRIP IN THE HOLE TO THE CASING SHOE
	0:30 - 2:30	2.00	DRLPRV	09	A	P		CUT AND SLIP 216' OF DRILLING LINE
	2:30 - 4:30	2.00	DRLPRV	06	A	P		TRIP BACK IN THE HOLE
	4:30 - 5:30	1.00	DRLPRV	02	B	P		DRILL SLIDE 5044' - 5149' (105' @ 105'/HR) WEIGHT ON BIT 22-26K. AVERAGE WEIGHT ON BIT 24K. ROTARY RPM 60/65, MUD MOTOR RPM 108. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 1900/2350. DIFFERENTIAL 450. TORQUE HIGH/LOW 6500/5000. OFF BOTTOM TORQUE 3000 STRING WEIGHT UP/DOWN/ROT 115/85/100. DRAG 15K. BIT POSITION : 14'N & 10' WEST CENTER SLIDE 0' AT 0'/HR. SLIDE 0% ROTATE 100%. NOV RUNNING 2 CENTRIFUGES ON DEWATER. WT 9.5 VIS 39.  /// FLOW ZAN MUD SYSTEM ///
	5:30 - 6:00	0.50	DRLPRV	07	A	P		USED 6 BBLS DRILL WATER FOR HOLE VOLUME. LOST 2 BBLS DRILL WATER INTO FORMATION. (LOSING 2 BBLS HR) PUMP LCM SWEEPS TO HELP CLEAN THE HOLE. (ADD 0 BBLS OF DRILL WATER TO PITS FOR VOLUME) NO FLARE RIG SERVICE

Operation Summary Report

Well: BONANZA 1023-5E2AS GREEN		Spud Date: 9/20/2012	
Project: UTAH-UINTAH		Site: BONANZA 1023-5D PAD	Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING		Start Date: 8/30/2012	End Date: 11/22/2012
Active Datum: RKB @5,254.00usft (above Mean Sea Level)		UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/529/W/0/490/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 17:00	11.00	DRLPRV	02	B	P		<p>DRILL SLIDE 5149' - 6305' (1156' @ 105'/HR)                      WEIGHT ON BIT 22-26K. AVERAGE WEIGHT ON BIT 24K.                      ROTARY RPM 60/65, MUD MOTOR RPM 108.                      STROKES PER MINUTE 115 GALLONS PER MINUTE 517.                      OFF/ON PSI 1950/2400.                      DIFFERENTIAL 450.                      TORQUE HIGH/LOW 7000/5500. OFF BOTTOM TORQUE 3500                      STRING WEIGHT UP/DOWN/ROT 120/95/105. DRAG 15K.                      BIT POSITION : 17'N &amp; 11' WEST CENTER                      SLIDE 18' AT 30.8'/HR.                      SLIDE 5.07% ROTATE 94.93%.                      NOV RUNNING 2 CENTRIFUGES ON DEWATER. /                      DROPPED TO 1 CENTRIFUGE</p> <p>AFTER THE TRIP FOR THE REAMER OUR MW AND VIS ROSE QUICKLY. WE ALSO HAD PROBLEMS WITH VERY WET CUTTING OVER THE SHAKER AND THE CENTRIFUGE. AFTER GETTING WITH A FEW PEOPLE WE DOUBLED THE POLYMER TO DEWATER AND IT FINALLY DRIED THE CUTTINGS UP TO A STACKABLE TEXTURE AND DROPPED THE WEIGHT BACK TO OUR TARGET OF 9.1. AFTER 2-3 HOURS WE DROPPED BACK TO 1 CENTRIFUGE, ADJUSTED THE PROCESS RATE TO MAINTAIN MUD WEIGHT.</p> <p>WT 9.6 VIS 44.                      WT 9.2 VIS 34</p> <p>/// FLOW ZAN MUD SYSTEM ///</p> <p>USED 65 BBLS DRILL WATER FOR HOLE VOLUME.                      LOST 60 BBLS DRILL WATER INTO FORMATION. (LOSING 6 BBLS HR)                      PUMP LCM SWEEPS TO HELP CLEAN THE HOLE. (ADD 125 BBLS OF DRILL WATER TO PITS FOR VOLUME)                      NO FLARE                      RIG SERVICE</p>
	17:00 - 17:30	0.50	DRLPRV	07	A	P		

Operation Summary Report

Well: BONANZA 1023-5E2AS GREEN		Spud Date: 9/20/2012	
Project: UTAH-UINTAH		Site: BONANZA 1023-5D PAD	Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING		Start Date: 8/30/2012	End Date: 11/22/2012
Active Datum: RKB @5,254.00usft (above Mean Sea Level)		UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/529/W/0/490/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	17:30 - 0:00	6.50	DRLPRV	02	B	P		DRILL SLIDE 6305' - 6936' (631' @ 97'/HR) WEIGHT ON BIT 22-26K. AVERAGE WEIGHT ON BIT 24K. ROTARY RPM 60/65, MUD MOTOR RPM 108. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 2050/2400. DIFFERENTIAL 350. TORQUE HIGH/LOW 9000/5500. OFF BOTTOM TORQUE 4500 STRING WEIGHT UP/DOWN/ROT 150/100/120. DRAG 30K. BIT POSITION : 16'N & 9' WEST CENTER SLIDE 0' AT 0'/HR. SLIDE 0% ROTATE 100%. NOV RUNNING 1 CENTRIFUGE ON DEWATER.  WT 9.1 VIS 36  /// FLOW ZAN MUD SYSTEM ///  USED 40 BBLS DRILL WATER FOR HOLE VOLUME. LOST 40 BBLS DRILL WATER INTO FORMATION. (LOSING 6 BBLS HR) PUMP LCM SWEEPS TO HELP CLEAN THE HOLE. (ADD 60 BBLS OF DRILL WATER TO PITS FOR VOLUME) NO FLARE
11/19/2012	0:00 - 5:30	5.50	DRLPRV	02	B	P		DRILL SLIDE 6936' - 7408' (372' @ 67.6'/HR) WEIGHT ON BIT 22-26K. AVERAGE WEIGHT ON BIT 24K. ROTARY RPM 60/65, MUD MOTOR RPM 108. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 1900/2350. DIFFERENTIAL 350. TORQUE HIGH/LOW 9000/5500. OFF BOTTOM TORQUE 4500 STRING WEIGHT UP/DOWN/ROT 150/110/125. DRAG 25K. BIT POSITION : 9'N & 10' WEST CENTER SLIDE 78' AT 40.8'/HR. SLIDE 34% ROTATE 66%. NOV RUNNING 1 CENTRIFUGE ON DEWATER.  WT 9.1 VIS 36  /// FLOW ZAN MUD SYSTEM ///  USED 25 BBLS DRILL WATER FOR HOLE VOLUME. LOST 80 BBLS DRILL WATER INTO FORMATION. (LOSING 14.5 BBLS HR) PUMP LCM SWEEPS TO HELP CLEAN THE HOLE. (ADD 70 BBLS OF DRILL WATER TO PITS FOR VOLUME) NO FLARE

Operation Summary Report

Well: BONANZA 1023-5E2AS GREEN		Spud Date: 9/20/2012	
Project: UTAH-UINTAH		Site: BONANZA 1023-5D PAD	Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING		Start Date: 8/30/2012	End Date: 11/22/2012
Active Datum: RKB @5,254.00usft (above Mean Sea Level)		UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/529/W/0/490/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	5:30 - 6:00	0.50	DRLPRV	07	A	P		RIG SERVICE
	6:00 - 17:30	11.50	DRLPRV	02	B	P		DRILL SLIDE 7408' - 8422' (1014' @ 88.17'/HR) WEIGHT ON BIT 22-26K. AVERAGE WEIGHT ON BIT 24K. ROTARY RPM 60/65, MUD MOTOR RPM 108. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 1900/2250. DIFFERENTIAL 350. TORQUE HIGH/LOW 9000/5500. OFF BOTTOM TORQUE 4500 STRING WEIGHT UP/DOWN/ROT 150/110/125. DRAG 25K. BIT POSITION : 15'N & 18' WEST CENTER SLIDE 50' AT 37.5'/HR. SLIDE 34% ROTATE 66%. NOV RUNNING 1 CENTRIFUGE ON DEWATER.  WT 9.1 VIS 36  /// FLOW ZAN MUD SYSTEM ///  USED 60 BBLS DRILL WATER FOR HOLE VOLUME. LOST 50 BBLS DRILL WATER INTO FORMATION. (LOSING 5 BBLS HR) PUMP LCM SWEEPS TO HELP CLEAN THE HOLE. (ADD 150 BBLS OF DRILL WATER TO PITS FOR VOLUME) 3-6' FLARE RIG SERVICE
	17:30 - 18:00	0.50	DRLPRV	07	A	P		RIG SERVICE

Operation Summary Report

Well: BONANZA 1023-5E2AS GREEN

Spud Date: 9/20/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5D PAD

Rig Name No: PROPETRO 12/12, XTC 12/12

Event: DRILLING

Start Date: 8/30/2012

End Date: 11/22/2012

Active Datum: RKB @5,254.00usft (above Mean Sea Level)

UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/529/W/0/490/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	18:00 - 22:30	4.50	DRLPRV	02	B	P		<p>DRILL SLIDE 8422' - 8677' (255' @ 56.6 '/HR) WEIGHT ON BIT 22-26K. AVERAGE WEIGHT ON BIT 24K.</p> <p>ROTARY RPM 50/65, MUD MOTOR RPM 81. STROKES PER MINUTE 90 GALLONS PER MINUTE 405.</p> <p>OFF/ON PSI 2600/2950.</p> <p>DIFFERENTIAL 350.</p> <p>TORQUE HIGH/LOW 9000/5000. OFF BOTTOM TORQUE 4500</p> <p>STRING WEIGHT UP/DOWN/ROT 170/115/135. DRAG 35K.</p> <p>BIT POSITION : 8'N &amp; 16' WEST CENTER SLIDE 0' AT 0'/HR.</p> <p>SLIDE 0% ROTATE 100%.</p> <p>NOV ON BYPASS</p> <p>DIPLACED THE FLOWZAN SYTEM WITH HEAVY MUD</p> <p>WT 11.5 VIS 42</p> <p>USED 15 BBLS DRILL WATER FOR HOLE VOLUME. LOST 80 BBLS MUD INTO FORMATION. (LOSING 14.5 BBLS HR) (ADD 80 BBLS OF DRILL WATER TO PITS FOR VOLUME)</p> <p>4-15' FLARE</p> <p>WE LOST APP 80 BBL. OF MUD ON THE INITIAL MUD TRANSFER TO 11.4 MW.</p>
	22:30 - 0:00	1.50	DRLPRV	05	C	P		<p>CIRCULATED AND CONDITIONED FOR THE WIPER TRIP.</p> <p>WE ALSO LOST 60 BBL. OF MUD DUE TO CEMENT CONTAMINATION IN OUR BAR SILO. WE HAD BUILT A PILL TANK UP TO OUR MUD SPECS IN THERE AND ADDED LCM FOR A SWEEP. AT TD WE SENT IT AROUND, WHEN IT GOT CLOSE TO SURFACE IT CAUSED US TO LOOSE RETURNS. WE SLOWED THE PUMP DOWN, REGAINED CIRCULATION, THEN INVESTIGATED THE PROBLEM.</p> <p>11.6MW 42 VIS</p>
11/20/2012	0:00 - 6:00	6.00	DRLPRV	06	E	P		<p>WIPER TRIP TO THE SHOE WITH THE GHOST REAMER.</p> <p>THE TRIP WAS VERY CLEAN</p>
	6:00 - 6:30	0.50	DRLPRV	07	A	P		<p>RIG SERVICE / REPLACE A BOLT IN THE SKATE</p>
	6:30 - 10:00	3.50	DRLPRV	06	E	P		<p>FINISHED TRIPPING IN THE HOLE.</p> <p>WE HAD 1 BRIDGE @ 7920'.</p> <p>3' FILL ON BOTTOM</p> <p>ON THE MORNING CONFERENCE CALL ALL INVOLVED DECIDED TO TRY A SINGLE WIPER TRIP BEFORE LOGS.</p>

## Operation Summary Report

Well: BONANZA 1023-5E2AS GREEN

Spud Date: 9/20/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5D PAD

Rig Name No: PROPETRO 12/12, XTC 12/12

Event: DRILLING

Start Date: 8/30/2012

End Date: 11/22/2012

Active Datum: RKB @5,254.00usft (above Mean Sea Level)

UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/529/W/0/490/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	10:00 - 13:00	3.00	DRLPRV	05	C	P		CIRCULATE AND CONDITION THE MUD FOR LOGS. THE HOLE WAS SLOUGHING A LITTLE AND WE BROUGHT THE MUD WEIGHT FROM 11.7 TO 12.0 THE SLOUGHING STOPPED. WE PUMPED AROUND THE 3% FIBER/ NUTPLUG LCM TO SURFACE. THE HOLE WAS CLEAN AT THIS TIME. 12.0 MW /45 VIS/ 3% LCM
	13:00 - 19:30	6.50	DRLPRV	06	A	P		TRIP OUT OF THE HOLE FOR LOGS. LAY DOWN THE GHOST REAMER AND DIRECTIONAL TOOLS.
	19:30 - 20:00	0.50	DRLPRV	14	B	P		PULLED THE WEAR BUSHING
	20:00 - 0:00	4.00	DRLPRV	11	D	P		HELD A SAFETY MEETING / RIGGED UP HALLIBURTON AND RAN TRIPLE COMBO LOG. DRILLERS TD 8766'
11/21/2012	0:00 - 1:00	1.00	DRLPRV	11	D	P		LOGS BRIDGED OUT @ 6255'. LOGGED OUT
	1:00 - 1:30	0.50	DRLPRV	14	B	P		HELD S/M FINISHED LOGGING OUT FROM 6255' RIGGED DOWN HALLIBURTON.
	1:30 - 10:00	8.50	DRLPRV	06	E			INSTALLED THE WEAR BUSHING ***SECOND WIPER TRIP I TALKED WITH ERIK SHULLENBERGER AND BRIAN COCCHIERE, THE DECISION WAS MADE TO MAKE A WIPER TRIP AND A 2ND LOGGING RUN HIT TIGHT SPOTS @ 6250,6732,7062' TRIP TO 8677' NO FILL.
	10:00 - 12:00	2.00	DRLPRV	05	C	P		CIRCULATED AND CONDITIONED MUD MW 12.1 42 VIS.
	12:00 - 19:00	7.00	DRLPRV	06	E			TRIP OUT FOR LOGS
	19:00 - 19:30	0.50	DRLPRV	14	B	P		PULLED THE WEAR BUSHING
	19:30 - 0:00	4.50	DRLPRV	11	D	P		HELD A SAFETY MEETING / RIGGED UP HALLIBURTON AND RAN TRIPLE COMBO LOGS. DRILLERS TD 8766' LOGGERS TD @ 8663' LOGGED OUT. RIGGED DOWN SAME.
11/22/2012	0:00 - 0:30	0.50	DRLPRV	07	A	P		RIG SERVICE
	0:30 - 4:30	4.00	CSGPRO	12	C	P		RIG UP KIMZEY RAN 198 TOTAL JTS. OF CASING (82 JOINTS OF 4.5"/11.6#/ 1-80/ LTC + 1 MARKER) + (114 JTS. OF 4.5"/ 11.6#/ 1-80/ DQX + 1-DQX CROSS OVER). LANDED @ 8652.84', FLOAT COLLAR @ 8605.72', MESA VERDE MARKER @ 6487.18', CROSS OVER JT. @ 5010.90'
	4:30 - 6:00	1.50	CSGPRO	22	L	Z		TROUBLE-SHOOT TORQUE TURN AND CASING TONGS.
	6:00 - 11:30	5.50	CSGPRO	12	C	P		( FINISH RUNING CSG ) 198 TOTAL JTS. OF CASING (82 JOINTS OF 4.5"/11.6#/ 1-80/ LTC + 1 MARKER) + (114 JTS. OF 4.5"/ 11.6#/ 1-80/ DQX + 1-DQX CROSS OVER). LANDED @ 8652.84', FLOAT COLLAR @ 8605.72', MESA VERDE MARKER @ 6487.18', CROSS OVER JT. @ 5010.90'
	11:30 - 12:30	1.00	CSGPRO	05	D	P		CIRCULATED THE CASING 70 STKS, 580 PSI 43 VIS 12.2 MW NO FLARE ON BOTTOMS UP

**Operation Summary Report**

Well: BONANZA 1023-5E2AS GREEN		Spud Date: 9/20/2012	
Project: UTAH-UINTAH		Site: BONANZA 1023-5D PAD	Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING		Start Date: 8/30/2012	End Date: 11/22/2012
Active Datum: RKB @5,254.00usft (above Mean Sea Level)		UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/529/W/0/490/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	12:30 - 16:00	3.50	CSGPRO	12	E	P		HELD A SAFETY MEETING WITH BAKER THEN PRESSURE TEST TO 4500 PSI. PUMP 25 BBLS OF FRESH WATER. PUMP 180 BBLS (510 SX) OF PREMIUM LITE II LEAD CEMENT, 12.5 PPG 1.98 YLD, .05 LB/SACK OF STATIC FREE + .4% BWOC R-3 +.25 LBS/SACK CELLO FLAKE + 5 LBS/SACK KOL-SEAL + .4% BWOC FL-52 + .2% BWOC SODIUM METASILICATE + 6% BWOC BENTONITE + 100.1%FRESH WATER . FOLLOWED BY 250 BBLS (1065 SX) OF 14.3# 1.32 YD 5.92 GAL/SK. POZ 50/50 TAIL CEMENT + 2% BWOC BENTONITEII + .005 LB/SACK STATIC FREE + 10% BWOW SODIUM CHLORIDE + .55%BWOC R-3 + .002GPS FP-6L + 58.8% FRESH WATER . SHUT DOWN AND FLUSH LINES. DROP PLUG AND DISPLACE W/ 133.5 BBLS OF FRESH WATER TREATED WITH CLAYFIX AND MAGNACIDE.FULL RETURNS, 1.5 BBLS OF WATER BACK AND 20 BBLS CEMENT TO SURFACE. LIFT PSI OF 2550 / BUMP PLUG 3250 PSI. . PRESSURE HELD 5 MINS. FLOAT HELD. FLOW BACK 1.5 BBLS. EST. TOC FOR TAIL 3900'. RIG DOWN CEMENTERS.
	16:00 - 16:30	0.50	RDMO	14	A	P		NIPPLED DOWN THE BOP
	16:30 - 17:30	1.00	RDMO	14	B	P		SET CSG HANGER. RIG RELEASED @ 17:30

US ROCKIES REGION

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	BONANZA 1023-5EZAS GREEN	Wellbore No.	OH
Well Name	BONANZA 1023-5EZAS	Wellbore Name	BONANZA 1023-5EZAS
Report No.	1	Report Date	4/29/2013
Project	UTAH-UINTAH	Site	BONANZA 1023-5D PAD
Rig Name/No.		Event	COMPLETION
Start Date	12/13/2012	End Date	5/8/2013
Spud Date	9/20/2012	Active Datum	RKB @5.254.00usft (above Mean Sea Level)
UWI	NW/NW/0/10/S/23/E/5/0/0/26/PM/N/529/W/0/490/0/0		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

Fluid Type	Fluid Density	Gross Interval	7.686.0 (usft)	-8,525.0 (usft)	Start Date/Time	4/29/2013 12:00AM
Surface Press	Estimate Res Press	No. of Intervals	24	End Date/Time	4/29/2013 12:00AM	
TVD Fluid Top	Fluid Head	Total Shots	86	Net Perforation Interval	27.00 (usft)	
Hydrostatic Press	Press Difference	Avg Shot Density	3.19 (shot/ft)	Final Surface Pressure		
Balance Cond	NEUTRAL			Final Press Date		

1.5 Summary

Fluid Density	Shot Density (shot/ft)	MD Base (usft)	MD Top (usft)	CCL-T S (usft)	CCL@ (usft)	Misfires/Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Misrun
Estimate Res Press	3.00	7.687.0	7.686.0				0.360	EXP/	3.375	120.00		23.00	PRODUCTIO
Fluid Head													N
Press Difference													

2 Intervals

2.1 Perforated Interval

Date	Formation/Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason
4/29/2013 12:00AM	MESAVERDE/			7.686.0	7.687.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO
														N

US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/29/2013 12:00AM	MESAVERDE/			7,726.0	7,727.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			7,757.0	7,758.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			7,796.0	7,798.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			7,808.0	7,810.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			7,847.0	7,848.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			7,864.0	7,865.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			7,887.0	7,888.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			7,915.0	7,916.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			7,926.0	7,927.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			7,957.0	7,958.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			7,973.0	7,974.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			7,995.0	7,996.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			8,025.0	8,026.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			8,035.0	8,036.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			8,040.0	8,041.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			8,049.0	8,050.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			8,101.0	8,102.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			8,174.0	8,175.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			8,181.0	8,182.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			8,266.0	8,267.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			8,294.0	8,295.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

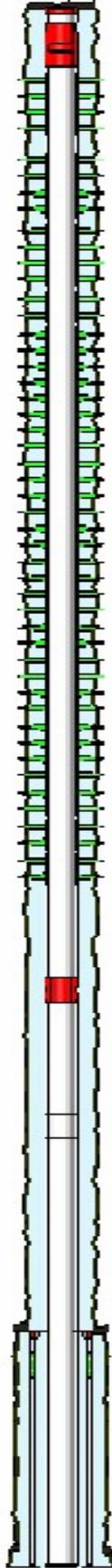
US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/29/2013 12:00AM	MESAVERDE/			8,507.0	8,508.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	
4/29/2013 12:00AM	MESAVERDE/			8,523.0	8,525.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	

3 Plots

3.1 Wellbore Schematic



**US ROCKIES REGION**  
**Operation Summary Report**

Well: BONANZA 1023-5E2AS GREEN		Spud Date: 9/20/2012	
Project: UTAH-UINTAH		Site: BONANZA 1023-5D PAD	Rig Name No: SWABBCO 6/6
Event: COMPLETION		Start Date: 12/13/2012	End Date: 5/8/2013
Active Datum: RKB @5,254.00usft (above Mean Sea Level)		UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/529/W/0/490/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
12/13/2012	-							
12/14/2012	-							
4/1/2013	11:00 - 17:30	6.50	SUBSPR	31	I	P		MIRU, NDWH CK FOR H2S, CLEAN, NU BOP'S, TEST BOP'S, PU BIT, BIT SUB, TBG, TIH TBG TO 8605', 272 JTS, POOH 2 JTS,CIRC WELLBORE CLEAN WITH 135 BBLs TREATED T-MAC, SWIFN
4/2/2013	7:00 - 7:30	0.50	SUBSPR	48		P		RIG DOWN
	7:30 - 12:00	4.50	SUBSPR	31	I	P		TOH 267 JNTS, LAY TUBING DOWN ON TRAILER, NDBOPS, NUWH, RIG DOWN MOVE TO NEXT PAD, NBU 922-29G
4/25/2013	8:00 - 11:30	3.50	SUBSPR	33	C	P		FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST CSG & FRAC VALVES 1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST 51 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI.  PRESSURE TEST 8 5/8 X 4 1/2 TO 495 PSI HELD FOR 5 MIN LOST -54 PSI,BLED PSI OFF, REINSTALLED POP OFF  PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. SWIFW

Operation Summary Report

Well: BONANZA 1023-5E2AS GREEN		Spud Date: 9/20/2012	
Project: UTAH-UINTAH		Site: BONANZA 1023-5D PAD	Rig Name No: SWABBCO 6/6
Event: COMPLETION		Start Date: 12/13/2012	End Date: 5/8/2013
Active Datum: RKB @5,254.00usft (above Mean Sea Level)		UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/529/W/0/490/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
4/29/2013	8:30 - 18:00	9.50	FRAC	36	B	P		<p>FRAC STG 1)WHP 1410 PSI, BRK 3820 PSI @ 5 BPM. ISIP 2352 PSI, FG. 0.72 ISIP 2336 PSI, FG. 0.72, NPI -16 PSI. SWI, XO T/ WL.</p> <p>PERF STG 2)SET CBP &amp; PERF AS PER PROCEDURE.</p> <p>FRAC STG 2)WHP 1830 PSI, BRK 2531 PSI @ 4.7 BPM. ISIP 1974 PSI, FG. 0.68 ISIP 2566 PSI, FG. 0.76, NPI 592 PSI. SWI, XO T/ WL.</p> <p>PERF STG 3)SET CBP &amp; PERF AS PER PROCEDURE.</p> <p>FRAC STG 3)WHP 2010 PSI, BRK 3241 PSI @ 5 BPM. ISIP 1976 PSI, FG. 0.69 ISIP 2158 PSI, FG. 0.71, NPI 182 PSI. SWI, XO T/ WL.</p> <p>PERF STG 4)SET CBP &amp; PERF AS PER PROCEDURE.</p> <p>FRAC STG 4)WHP 1537 PSI, BRK 1755 PSI @ 5 BPM. ISIP 1566 PSI, FG. 0.64 ISIP 2132 PSI, FG. 0.71, NPI 566 PSI. SWI, XO T/ WL.</p> <p>PU 4 1/2 8K HAL CBP. RIH SET KILL PLUG @ 7636'. POOH. SWI. DONE FRACING THIS WELL.</p> <p>TOTAL SAND = 83,982 LBS TOTAL CLFL = 4116 BBL</p>
5/8/2013	7:00 - 7:30	0.50	DRLOUT	48		P		HSM, RIGGING UP.CHECKING RAMS IN BOPS.
	7:30 - 10:30	3.00	DRLOUT	30	A	P		RIG DWN OFF YELLOW WELL, MOVED OVER & RIGGED UP, ND WH NU BOPS, RU FLOOR & TBG EQUIP.CHANGED OUT RAMS IN BOPS.
	10:30 - 15:00	4.50	DRLOUT	31	I	P		TALLY & PU 37/8 BIT, POBS, 1.875 X/N & 150 JTS 23/8 J-55, 6' L-80 PUP JT, 94 JTS 23/8 L-80 TAG UP @ 7634'.RU DRLG EQUIP.

Operation Summary Report

Well: BONANZA 1023-5E2AS GREEN		Spud Date: 9/20/2012	
Project: UTAH-UINTAH		Site: BONANZA 1023-5D PAD	Rig Name No: SWABBCO 6/6
Event: COMPLETION		Start Date: 12/13/2012	End Date: 5/8/2013
Active Datum: RKB @5,254.00usft (above Mean Sea Level)		UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/529/W/0/490/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	15:00 - 18:30	3.50	DRLOUT	44	D	P		BROKE CIRC CONV, TEST BOPS TO 3,000#, RIH  C/O 17' SAND TAG 1ST PLG @ 7646' DRL PLG IN 5 MINS 700 PSI INCREASE RIH.  C/O 25' SAND TAG 2ND PLG @ 7837' DRL PLG IN 2 MINS 0 PSI INCREASE RIH.  C/O 15' SAND TAG 3RD PLG @ 8015' DRL PLG IN 4 MINS 400 PSI INCREASE RIH.  C/O 25' SAND TAG 4TH PLG @ 8212' DRL PLG IN 5 MINS 700 PSI INCREASE RIH.  C/O TO PBTD @ 8584' CIRC CLN, HANG SWIVEL, L/D 19 JTS 23/8 L-80, LAND TBG ON 255 JTS 23/8, ND BOPS NU WH, TEST FLOW LINE, PUMPED OFF BIT, TURN OVER TO FB CREW, SDFN.  KB = 15' 41/16 HANGER = .83' (SURFAC VALVE IS OPEN & LOCKED ) 105 JTS 23/8 L-80 = 3234.40' 1950 SICP 100 FTP 6' 23/8 L-80 PUP JT = 6.12' 150 JTS 23/8 J-55 = 4741.90' POBS W/ 1.875 X/N = 2.20' EOT @ 8000.45'  TWTR = 4206 BBLS TWR = 1000 BBLS TWLTR = 3206 BBLS  315 JTS DELIVERED 150 J-55, 165 L-80 255 LANDED 60 TO RETURN L-80
	18:30 - 18:30	0.00	DRLOUT	50				WELL TURNED TO SALES @ 18:15 HR ON 5/8/2013. 1100 MCFD, 1560 BWPD, FCP 2000#, FTP 1800#, 20/64" CK.

Project: UTAH - UTM (feet) NAD27, Zone 12N  
 Site: UTAH - BONANZA 1023-5E2AS DRILLERS TARGET PAD  
 Well: BONANZA 1023-5E2AS  
 Wellbore: BONANZA 1023-5E2AS  
 Section:  
 SHL:  
 Design: BONANZA 1023-5E2AS (wp01)  
 Latitude: 39.983825  
 Longitude: -109.357700  
 GL: 5238.00  
 KB: XTREME 12 15' RKB+GL @ 5253.00ft (XTREME 12)

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1128.00	1139.52	GREEN RIVER
1484.00	1517.35	BIRDS NEST
1991.00	2055.88	MAHOAGANY MARKER
4269.00	4409.79	WASATCH
4869.00	5009.80	INTERCEPT TARGET
6376.00	6516.83	MESAVERDE
8536.00	8676.87	SEGO



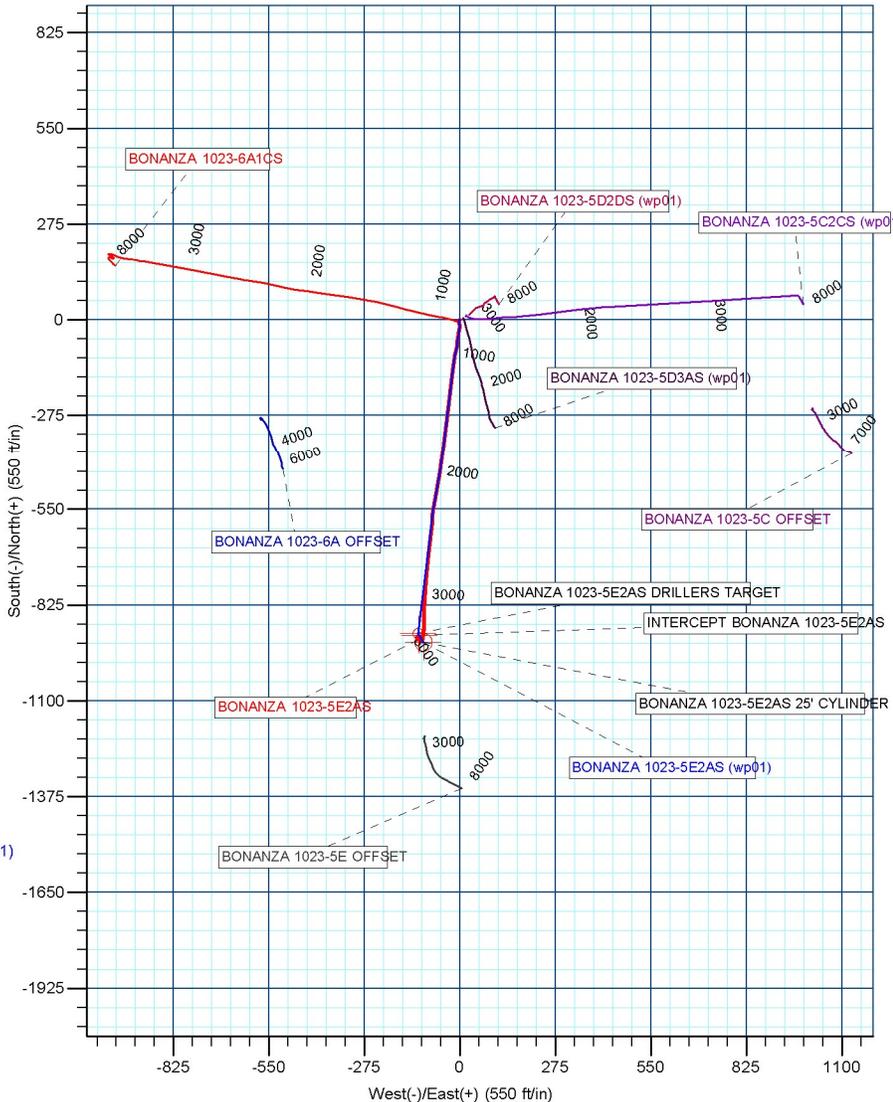
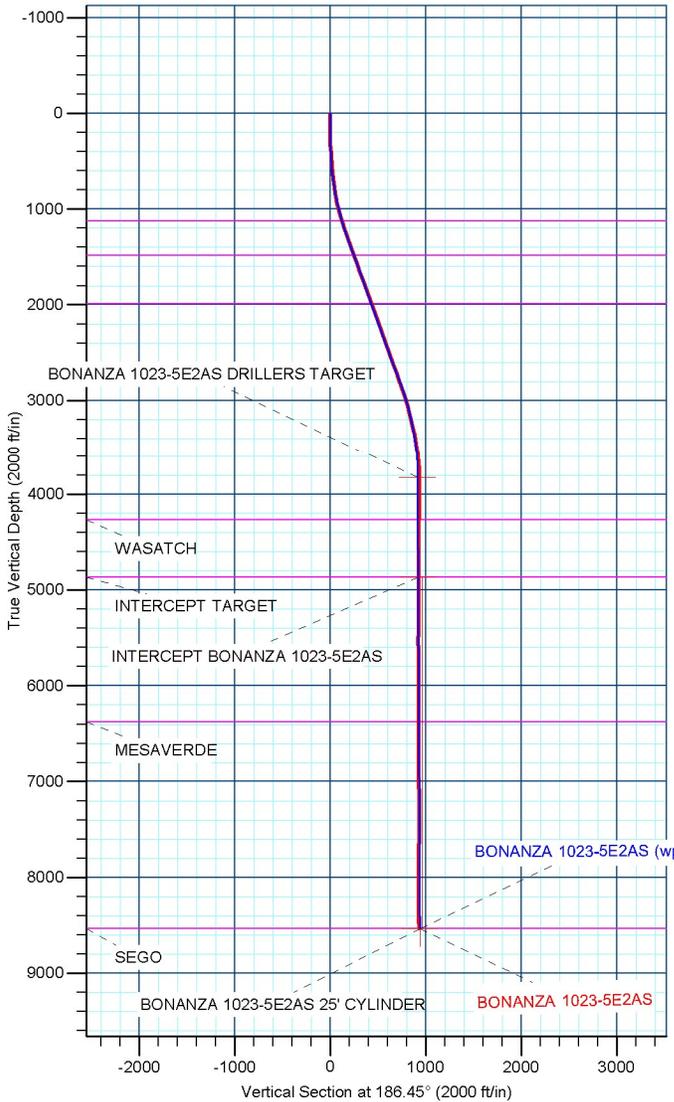
WELL DETAILS: BONANZA 1023-5E2AS					
+N-S	+E-W	Northing	Ground Level: Easting	5238.00 Latitude	Slot
0.00	0.00	14524391.92	2100476.03	39.983825	
			Longitude		
			-109.357700		

CASING DETAILS			
TVD	MD	Name	Size
2394.87	2486.00	8-5/8	8-5/8

T M  
 Azimuths to True North  
 Magnetic North: 10.85°  
 Magnetic Field  
 Strength: 52210.0snT  
 Dip Angle: 65.85°  
 Date: 9/26/2012  
 Model: IGRF2010

DESIGN TARGET DETAILS								
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Shape
BONANZA 1023-5E2AS DRILLERS TARGET	3824.00	-907.04	-120.36	14523482.82	2100372.40	39.981335	-109.358130	Circle (Radius: 15.00)
INTERCEPT BONANZA 1023-5E2AS	4869.00	-912.33	-117.18	14523477.59	2100375.68	39.981320	-109.358118	Point
BONANZA 1023-5E2AS 25' CYLINDER	8536.00	-932.04	-105.36	14523458.10	2100387.86	39.981266	-109.358076	Circle (Radius: 25.00)

SECTION DETAILS								
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	V Sect
2461.00	19.35	187.16	2371.32	-563.10	-78.15	0.00	0.00	568.32
2504.32	20.21	186.99	2412.08	-577.65	-79.96	2.00	-3.83	582.98
2954.05	20.21	186.99	2834.11	-731.90	-98.88	0.00	0.00	738.37
3964.78	0.00	0.00	3824.00	-907.04	-120.36	2.00	180.00	914.82
4084.48	0.36	149.04	3943.70	-907.36	-120.17	0.30	149.04	915.12
8676.87	0.36	149.04	8536.00	-932.04	-105.36	0.00	0.00	937.98



RECEIVED: Jun. 04, 2013



**Weatherford®**

## **US ROCKIES REGION PLANNING**

**UTAH - UTM (feet), NAD27, Zone 12N**

**UINTAH\_BONANZA 1023-5D PAD**

**BONANZA 1023-5E2AS**

**BONANZA 1023-5E2AS**

**Design: BONANZA 1023-5E2AS**

## **Standard Survey Report**

**26 November, 2012**





<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-5E2AS
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>TVD Reference:</b>	XTREME 12 15' RKB+GL @ 5253.00ft (XTREME 12)
<b>Site:</b>	UINTAH_BONANZA 1023-5D PAD	<b>MD Reference:</b>	XTREME 12 15' RKB+GL @ 5253.00ft (XTREME 12)
<b>Well:</b>	BONANZA 1023-5E2AS	<b>North Reference:</b>	True
<b>Wellbore:</b>	BONANZA 1023-5E2AS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	BONANZA 1023-5E2AS	<b>Database:</b>	edmp

<b>Project</b>	UTAH - UTM (feet), NAD27, Zone 12N		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Feet)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Zone 12N (114 W to 108 W)		

<b>Site</b>	UINTAH_BONANZA 1023-5D PAD				
<b>Site Position:</b>		<b>Northing:</b>	14,524,386.67 usft	<b>Latitude:</b>	39.983811
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,100,467.44 usft	<b>Longitude:</b>	-109.357731
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	1.06 °

<b>Well</b>	BONANZA 1023-5E2AS					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	14,524,391.93 usft	<b>Latitude:</b>	39.983825
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,100,476.03 usft	<b>Longitude:</b>	-109.357700
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,238.00 ft

<b>Wellbore</b>	BONANZA 1023-5E2AS				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	9/26/2012	10.85	65.85	52,210

<b>Design</b>	BONANZA 1023-5E2AS				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	11.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	11.00	0.00	0.00	187.90	

<b>Survey Program</b>	<b>Date</b>	11/26/2012			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
184.00	2,461.00	Survey #1 (BONANZA 1023-5E2AS)	MWD	MWD - STANDARD	
2,559.00	8,677.00	Survey #2 (BONANZA 1023-5E2AS)	MWD	MWD - STANDARD	

<b>Survey</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Vertical Section (ft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	
11.00	0.00	0.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
184.00	0.53	265.65	184.00	-0.06	-0.80	0.17	0.31	0.31	0.00	
269.00	1.23	228.91	268.99	-0.69	-1.88	0.94	1.02	0.82	-43.22	
351.00	1.85	185.06	350.96	-2.59	-2.66	2.93	1.57	0.76	-53.48	
441.00	2.93	167.03	440.88	-6.28	-2.27	6.53	1.45	1.20	-20.03	
531.00	4.57	168.97	530.69	-12.04	-1.07	12.07	1.83	1.82	2.16	
621.00	6.07	181.28	620.30	-20.31	-0.49	20.19	2.09	1.67	13.68	
711.00	7.30	193.23	709.69	-30.64	-1.90	30.61	2.06	1.37	13.28	



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-5E2AS
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>TVD Reference:</b>	XTREME 12 15' RKB+GL @ 5253.00ft (XTREME 12)
<b>Site:</b>	UINTAH_BONANZA 1023-5D PAD	<b>MD Reference:</b>	XTREME 12 15' RKB+GL @ 5253.00ft (XTREME 12)
<b>Well:</b>	BONANZA 1023-5E2AS	<b>North Reference:</b>	True
<b>Wellbore:</b>	BONANZA 1023-5E2AS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	BONANZA 1023-5E2AS	<b>Database:</b>	edmp

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
801.00	9.37	187.87	798.74	-43.46	-4.21	43.63	2.45	2.30	-5.96
891.00	11.43	189.71	887.25	-59.51	-6.72	59.87	2.32	2.29	2.04
981.00	13.37	189.89	975.15	-78.56	-10.01	79.19	2.16	2.16	0.20
1,071.00	15.65	189.10	1,062.27	-100.80	-13.72	101.73	2.54	2.53	-0.88
1,161.00	17.67	188.40	1,148.49	-126.30	-17.64	127.52	2.26	2.24	-0.78
1,251.00	19.26	187.78	1,233.85	-154.52	-21.64	156.03	1.78	1.77	-0.69
1,341.00	20.05	187.52	1,318.61	-184.52	-25.67	186.30	0.88	0.88	-0.29
1,431.00	20.31	187.16	1,403.08	-215.31	-29.64	217.34	0.32	0.29	-0.40
1,521.00	20.58	187.52	1,487.42	-246.49	-33.65	248.78	0.33	0.30	0.40
1,611.00	20.31	186.02	1,571.75	-277.71	-37.36	280.21	0.65	-0.30	-1.67
1,701.00	18.91	187.25	1,656.52	-307.71	-40.84	310.40	1.62	-1.56	1.37
1,791.00	19.52	187.43	1,741.51	-337.09	-44.63	340.02	0.68	0.68	0.20
1,881.00	19.62	186.73	1,826.31	-367.01	-48.34	370.17	0.28	0.11	-0.78
1,971.00	19.61	187.08	1,911.09	-397.00	-51.97	400.37	0.13	-0.01	0.39
2,061.00	19.79	188.66	1,995.82	-427.05	-56.13	430.71	0.62	0.20	1.76
2,151.00	20.31	189.71	2,080.37	-457.51	-61.06	461.56	0.70	0.58	1.17
2,241.00	20.49	190.86	2,164.72	-488.37	-66.66	492.90	0.49	0.20	1.28
2,331.00	20.15	188.22	2,249.12	-519.19	-71.84	524.13	1.09	-0.38	-2.93
2,421.00	20.01	188.45	2,333.65	-549.76	-76.32	555.03	0.18	-0.16	0.26
2,461.00	19.35	187.16	2,371.32	-563.10	-78.15	568.50	1.98	-1.65	-3.23
<b>TIE ON</b>									
2,559.00	19.13	183.13	2,463.85	-595.25	-81.05	600.74	1.37	-0.22	-4.11
<b>FIRST WFT MWD SURVEY</b>									
2,648.00	20.50	186.50	2,547.58	-625.30	-83.62	630.85	2.00	1.54	3.79
2,736.00	19.94	187.52	2,630.15	-655.48	-87.32	661.26	0.75	-0.64	1.16
2,825.00	20.69	187.00	2,713.62	-686.13	-91.23	692.16	0.87	0.84	-0.58
2,913.00	20.56	186.37	2,795.98	-716.92	-94.83	723.15	0.29	-0.15	-0.72
3,002.00	19.25	185.00	2,879.66	-747.07	-97.85	753.43	1.56	-1.47	-1.54
3,091.00	17.63	184.00	2,964.09	-775.13	-100.07	781.53	1.85	-1.82	-1.12
3,177.00	16.25	182.00	3,046.35	-800.15	-101.39	806.49	1.74	-1.60	-2.33
3,267.00	13.88	184.00	3,133.26	-823.51	-102.59	829.79	2.70	-2.63	2.22
3,356.00	12.63	180.87	3,219.88	-843.89	-103.48	850.10	1.62	-1.40	-3.52
3,443.00	11.93	181.29	3,304.89	-862.39	-103.83	868.47	0.81	-0.80	0.48
3,532.00	10.88	179.87	3,392.13	-879.98	-104.01	885.93	1.22	-1.18	-1.60
3,622.00	9.19	184.00	3,480.76	-895.65	-104.50	901.51	2.04	-1.88	4.59
3,708.00	7.56	189.75	3,565.84	-908.07	-105.93	914.02	2.13	-1.90	6.69
3,796.00	4.63	184.50	3,653.33	-917.32	-107.19	923.35	3.39	-3.33	-5.97
3,885.00	3.38	187.87	3,742.11	-923.50	-107.83	929.56	1.43	-1.40	3.79
3,974.00	1.38	184.87	3,831.03	-927.17	-108.28	933.25	2.25	-2.25	-3.37
4,061.00	0.44	350.75	3,918.02	-927.88	-108.43	933.98	2.08	-1.08	190.67
4,149.00	0.50	338.87	4,006.02	-927.19	-108.62	933.32	0.13	0.07	-13.50
4,237.00	0.13	349.12	4,094.02	-926.74	-108.78	932.89	0.42	-0.42	11.65



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-5E2AS
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>TVD Reference:</b>	XTREME 12 15' RKB+GL @ 5253.00ft (XTREME 12)
<b>Site:</b>	UINTAH_BONANZA 1023-5D PAD	<b>MD Reference:</b>	XTREME 12 15' RKB+GL @ 5253.00ft (XTREME 12)
<b>Well:</b>	BONANZA 1023-5E2AS	<b>North Reference:</b>	True
<b>Wellbore:</b>	BONANZA 1023-5E2AS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	BONANZA 1023-5E2AS	<b>Database:</b>	edmp

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,324.00	1.38	335.12	4,181.01	-925.69	-109.24	931.92	1.44	1.44	-16.09	
4,414.00	1.25	333.12	4,270.99	-923.83	-110.14	930.20	0.15	-0.14	-2.22	
4,503.00	1.19	325.25	4,359.97	-922.20	-111.10	928.72	0.20	-0.07	-8.84	
4,592.00	1.06	319.37	4,448.95	-920.82	-112.17	927.50	0.20	-0.15	-6.61	
4,681.00	0.75	318.62	4,537.94	-919.76	-113.09	926.57	0.35	-0.35	-0.84	
4,770.00	0.56	309.50	4,626.93	-919.05	-113.81	925.96	0.24	-0.21	-10.25	
4,860.00	0.44	309.87	4,716.93	-918.54	-114.41	925.55	0.13	-0.13	0.41	
4,994.00	0.25	311.75	4,850.93	-918.02	-115.02	925.12	0.14	-0.14	1.40	
5,099.00	0.56	334.87	4,955.92	-917.40	-115.41	924.56	0.33	0.30	22.02	
5,188.00	0.63	334.12	5,044.92	-916.57	-115.81	923.79	0.08	0.08	-0.84	
5,277.00	0.47	335.67	5,133.91	-915.80	-116.18	923.07	0.18	-0.18	1.74	
5,365.00	0.31	339.87	5,221.91	-915.24	-116.41	922.56	0.18	-0.18	4.77	
5,454.00	0.19	354.25	5,310.91	-914.87	-116.50	922.20	0.15	-0.13	16.16	
5,543.00	0.13	134.37	5,399.91	-914.79	-116.45	922.12	0.34	-0.07	157.44	
5,632.00	0.38	174.00	5,488.91	-915.16	-116.34	922.46	0.33	0.28	44.53	
5,722.00	0.50	151.12	5,578.91	-915.80	-116.12	923.07	0.23	0.13	-25.42	
5,811.00	0.75	153.50	5,667.90	-916.66	-115.68	923.86	0.28	0.28	2.67	
5,901.00	0.88	149.00	5,757.89	-917.78	-115.06	924.88	0.16	0.14	-5.00	
5,990.00	0.81	328.25	5,846.89	-917.83	-115.04	924.93	1.90	-0.08	201.40	
6,078.00	0.75	330.50	5,934.88	-916.80	-115.65	923.99	0.08	-0.07	2.56	
6,167.00	0.63	327.00	6,023.88	-915.88	-116.20	923.16	0.14	-0.13	-3.93	
6,255.00	0.44	338.62	6,111.87	-915.16	-116.59	922.50	0.25	-0.22	13.20	
6,343.00	0.31	357.75	6,199.87	-914.61	-116.72	921.97	0.20	-0.15	21.74	
6,433.00	0.13	83.50	6,289.87	-914.36	-116.63	921.71	0.36	-0.20	95.28	
6,520.00	0.31	98.62	6,376.87	-914.38	-116.30	921.69	0.22	0.21	17.38	
6,608.00	0.50	124.25	6,464.87	-914.63	-115.74	921.86	0.29	0.22	29.13	
6,695.00	0.56	139.75	6,551.86	-915.17	-115.15	922.31	0.18	0.07	17.82	
6,783.00	0.69	147.25	6,639.86	-915.94	-114.59	923.00	0.17	0.15	8.52	
6,869.00	0.69	148.00	6,725.85	-916.82	-114.04	923.79	0.01	0.00	0.87	
6,957.00	0.94	152.12	6,813.84	-917.91	-113.42	924.78	0.29	0.28	4.68	
7,047.00	1.31	136.75	6,903.83	-919.31	-112.37	926.03	0.53	0.41	-17.08	
7,136.00	1.13	233.50	6,992.81	-920.57	-112.38	927.28	2.05	-0.20	108.71	
7,225.00	1.50	232.37	7,081.79	-921.80	-114.00	928.72	0.42	0.42	-1.27	
7,315.00	1.25	200.75	7,171.76	-923.44	-115.28	930.52	0.87	-0.28	-35.13	
7,402.00	0.31	166.37	7,258.76	-924.56	-115.57	931.67	1.16	-1.08	-39.52	
7,492.00	0.75	297.50	7,348.75	-924.52	-116.03	931.69	1.09	0.49	145.70	
7,581.00	1.06	349.12	7,437.74	-923.44	-116.70	930.72	0.94	0.35	58.00	
7,667.00	2.06	339.00	7,523.71	-921.22	-117.41	928.61	1.20	1.16	-11.77	
7,755.00	1.56	326.87	7,611.67	-918.74	-118.63	926.33	0.71	-0.57	-13.78	
7,844.00	1.13	323.50	7,700.64	-917.02	-119.81	924.78	0.49	-0.48	-3.79	
7,932.00	0.63	306.00	7,788.63	-916.04	-120.72	923.94	0.64	-0.57	-19.89	
8,022.00	0.50	298.75	7,878.63	-915.56	-121.46	923.56	0.16	-0.14	-8.06	



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-5E2AS
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>TVD Reference:</b>	XTREME 12 15' RKB+GL @ 5253.00ft (XTREME 12)
<b>Site:</b>	UINTAH_BONANZA 1023-5D PAD	<b>MD Reference:</b>	XTREME 12 15' RKB+GL @ 5253.00ft (XTREME 12)
<b>Well:</b>	BONANZA 1023-5E2AS	<b>North Reference:</b>	True
<b>Wellbore:</b>	BONANZA 1023-5E2AS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	BONANZA 1023-5E2AS	<b>Database:</b>	edmp

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,111.00	0.56	258.25	7,967.62	-915.46	-122.23	923.57	0.42	0.07	-45.51	
8,200.00	0.75	203.75	8,056.62	-916.08	-122.89	924.28	0.70	0.21	-61.24	
8,286.00	0.81	177.00	8,142.61	-917.20	-123.09	925.42	0.43	0.07	-31.10	
8,372.00	0.88	169.12	8,228.60	-918.46	-122.93	926.64	0.16	0.08	-9.16	
8,460.00	0.88	162.12	8,316.59	-919.77	-122.59	927.89	0.12	0.00	-7.95	
8,549.00	1.13	162.62	8,405.58	-921.25	-122.12	929.30	0.28	0.28	0.56	
8,627.00	1.42	156.83	8,483.56	-922.88	-121.51	930.82	0.41	0.37	-7.42	
<b>LAST WFT MWD SURVEY</b>										
8,677.00	1.42	156.83	8,533.54	-924.02	-121.02	931.88	0.00	0.00	0.00	
<b>PROJECTION TO TD</b>										

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  5. LEASE DESIGNATION AND SERIAL NUMBER: UTU33433
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  7. UNIT or CA AGREEMENT NAME: PONDEROSA
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: BONANZA 1023-5E2AS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047520950000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6100
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0529 FNL 0490 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES  COUNTY: UINTAH  STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 2/19/2014  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The operator requests authorization to recomplete the subject well in the Wasatch/Mesaverde formation. Please see the attached procedure. This is a courtesy copy on behalf of the Natural Buttes Unit.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining**

Date: February 24, 2014

By: David K. Quist

NAME (PLEASE PRINT) Joel Malefyt	PHONE NUMBER 720 929-6828	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 2/18/2014	



## Greater Natural Buttes Unit

**BONANZA 1023-5E2AS  
RE-COMPLETION PROCEDURE  
BONANZA 1023-5D PAD  
FIELD ID: GREEN WELL**

**DATE: 1/30/2014  
AFE#:  
API#: 4304752095  
USER ID: SNT239 (Frac Invoices Only)**

**COMPLETIONS ENGINEER: Jamie Berghorn, Denver, CO  
(720) 929-6230 (Office)  
(303) 909-3417 (Cell)**

**REMEMBER SAFETY FIRST!**

**Name:** BONANZA 1023-5E2AS  
**Location:** NE NW SW NW Sec 5 T10S R23E  
**LAT:** 39.983791 **LONG:** -109.358379 **COORDINATE:** NAD83 (Surface Location)  
**Uintah County, UT**

**ELEVATIONS:** 5,239' GL 5,254' KB *Frac Registry TVD: 8,534'*

**TOTAL DEPTH:** 8,677' **PBTD:** 8,606'  
**SURFACE CASING:** 8 5/8", 28# J-55 8RD @ 2,497'  
**PRODUCTION CASING:** 4 1/2", 11.6#, I-80 DQX @ 5,011'  
 4 1/2", 11.6#, I-80 8RD LTC 8,653'  
 Marker Joint **6,460-6,481'**

**TUBULAR PROPERTIES:**

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl./ft)	(gal/ft)
2 3/8" 4.7# L-80 tbg	11,200	11,780	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
4 1/2" 11.6# P-110	10691	7580	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

**TOPS:**

1,067' Green River Top  
 1,452' Bird's Nest Top  
 2,057' Mahogany Top  
 4,417' Wasatch Top  
 6,538' Mesaverde Top  
 \*Based on latest geological interpretation

**BOTTOMS:**

6,538' Wasatch Bottom  
 8,677' Mesaverde Bottom (TD)

**T.O.C. @ 351'**

\*\*Based on latest interpretation of CBL

**GENERAL NOTES:**

- **Please note that:**
  - All stages on this procedure may or may not be completed due to low frac gradients, timing, or other possible reasons. Total stages completed can be found in the post-job-report.
  - CBP depth on this procedure is only to be used as a reference. This depth is subject to change as per field operations and the discretion of the wireline supervisor and field foreman.
- A minimum of **12** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Baker's GRlog dated **12/13/2012**.
- **5** fracturing stages required for coverage.
- Hydraulic isolation estimated at **1445** based upon Baker's CBL dated 12/13/2012.
- Procedure calls for **6** CBP's (**8000** psi) .
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- **Pump scale inhibitor at 0.5 gpt. Remember to pre-load the casing with scale inhibitor.**

- Do not pump clay stabilizer. Consult completions engineer is fresh water will be pumped during frac.
- FR will be pumped at 0.3 gpt for this well. This concentration will be raised or lowered on the job at the discretion of the APC foreman per the well's treating pressure.
- 30/50 mesh Ottawa sand, **Slickwater frac.**
- Maximum surface pressure **6200 psi.**
- **If casing pressure test fails (pressure loss of 1.5% psi or more), retest for 15 minutes. If pressure loss of 1.5% more on second test, notify Denver engineers. Record in Openwells. MIRU with tubing and packer. Isolate leak by pressure testing above and below the packer. RIH and set appropriate casing leak remediation. Re-pressure test to 1000 and 3500 psi for 15 minutes each and to 6200 psi for 30 minutes (specific details on remediation should be documented in OpenWells).**
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- Call flush at 0 PPG @ inline densimeters. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.
- Max Sand Concentration: Mesaverde 1 ppg; Wasatch 2 ppg;
- If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing – design will over flush stage by 5 bbls (from top perf)
- **TIGHT SPACING ON STAGE 3**
- **If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work.**

**Existing Perforations:**

<u>Formation</u>	<u>Zone</u>	<u>Top</u>	<u>Btm</u>	<u>spf</u>	<u>Shots</u>	<u>Date</u>
MESAVERDE		7686	7687	3	3	04/29/2013
MESAVERDE		7726	7727	3	3	04/29/2013
MESAVERDE		7757	7758	3	3	04/29/2013
MESAVERDE		7796	7798	3	6	04/29/2013
MESAVERDE		7808	7810	3	6	04/29/2013
MESAVERDE		7847	7848	3	3	04/29/2013
MESAVERDE		7864	7865	3	3	04/29/2013
MESAVERDE		7887	7888	3	3	04/29/2013
MESAVERDE		7915	7916	3	3	04/29/2013
MESAVERDE		7926	7927	3	3	04/29/2013
MESAVERDE		7957	7958	3	3	04/29/2013
MESAVERDE		7973	7974	3	3	04/29/2013
MESAVERDE		7995	7996	3	3	04/29/2013
MESAVERDE		8025	8026	3	3	04/29/2013
MESAVERDE		8035	8036	3	3	04/29/2013
MESAVERDE		8040	8041	3	3	04/29/2013
MESAVERDE		8049	8050	3	3	04/29/2013
MESAVERDE		8101	8102	3	3	04/29/2013
MESAVERDE		8174	8175	3	3	04/29/2013
MESAVERDE		8181	8182	3	3	04/29/2013
MESAVERDE		8266	8267	4	4	04/29/2013
MESAVERDE		8294	8295	4	4	04/29/2013
MESAVERDE		8507	8508	4	4	04/29/2013
MESAVERDE		8523	8525	4	8	04/29/2013

**Relevant History:**

4/29/2013: Originally completed in Mesaverde formation (4 stages) with ~ 172,872 gallons of Slickwater, 83,982lbs of 30/50 Ottawa Sand sand.

1/2/2014: Last slickline report:

Retrieve plunger from wellhead. Retrieve spring from S/N. Ran TD. Ran scatcher to S/N hit a few bridges top to 3500'. Ran broach to S/N chased 3 thps sticks to S/N. Spring looked good so I SET USED TITANIUM SPRING IN S/N. DROPPED USED ANADARKO BAR STOCK PLUNGER.

1/30/2014: Tubing Currently Landed @ ~8000' (105 jts L-80 ~3230' & 150 jts J-55 to TD)

**H2S History:**

Location Name	(Column Names)	2013	
		Jul	Dec
BONANZA 1023-5E2AS	Max(Separator H2S (ppm))	0	0
	Max(Tank H2S (ppm))	0	0

**PROCEDURE: (If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work.)**

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.
2. The tubing is below the proposed CBP depth. TOOHS with 2-3/8", 4.7#, L80/J55 tubing. Visually inspect for scale and consider replacing if needed.
3. If tbg looks ok consider running a gauge ring to 7595' (50' below proposed CBP). Otherwise P/U a mill and C/O to 7595' (50' below proposed CBP).
4. Set 8000 psi CBP at ~ 7545'. ND BOPs and NU frac valves Test frac valves and casing to to **6200 psi** for 15 minutes; if pressure test fails contact Denver engineer and see notes above. **Lock OPEN the Braden head valve.** Flow from annulus will be visually monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.
5. Pressure test frac lines to max surface pressure + 1000 psi for 15 minutes. Pressure loss should be less than 10% to be considered acceptable. Check and correct for existing leaks.

6. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
MESAVERDE	7305	7306	3	3
MESAVERDE	7373	7374	3	3
MESAVERDE	7378	7379	3	3
MESAVERDE	7476	7477	3	3
MESAVERDE	7493	7495	3	6
MESAVERDE	7509	7511	3	6

7. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~7305' and trickle 250gal 15%HCL w/ scale inhibitor in flush .

8. Set 8000 psi CBP at ~7241'. Perf the following 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
MESAVERDE	6994	6995	3	3
MESAVERDE	7049	7050	3	3
MESAVERDE	7136	7137	3	3
MESAVERDE	7159	7160	3	3
MESAVERDE	7181	7183	3	6

MESAVERDE 7209 7211 3 6

9. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~6994' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

10. Set 8000 psi CBP at ~6865'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
MESAVERDE	6609	6611	3	6
MESAVERDE	6615	6617	3	6
MESAVERDE	6729	6731	3	6
MESAVERDE	6833	6835	3	6

11. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~6609' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

**NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLs**

12. Set 8000 psi CBP at ~6595'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
WASATCH	6494	6496	3	6
MESAVERDE	6541	6544	3	9
MESAVERDE	6578	6581	3	9

13. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~6494' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

14. Set 8000 psi CBP at ~5960'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
WASATCH	5728	5730	3	6
WASATCH	5754	5756	3	6
WASATCH	5860	5862	3	6
WASATCH	5928	5930	3	6

15. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 5 on attached listing. Under-displace to ~5728' and flush only with recycled water.

16. Set 8000 psi CBP at ~5678'.

17. ND Frac Valves, NU and Test BOPs.

18. TIH with 3 7/8" bit, pump open sub, SN and tubing.

19. Drill 5 plugs and clean out to a depth of 7531' (~ 20' below bottom perfs). This well WILL NOT be commingled at this time.

20. PU & land tubing at 7275'. ND BOP, drop ball, NUWH. Shift pump open sub. Flow back completion load. RDMO.

21. MIRU, POOH tbg and POBS. TIH with with 3 7/8" bit, pump off sub, SN, and tbg.

22. Drill last plug @ 7545' clean out to PBTD at 8606'. Shear off bit and land tubing at ±8000'. This well WILL be commingled at this time. **NOTE: If the CBP between the initial**

**completion and the recompleted sands has been in the well for more than 30 calendar days from the beginning of flowback for the recompletion, a sundry will need to be filed with the state. Contact the Regulatory group to file the sundry prior to commencing work.**

- 23. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.
- 24. **Leave surface casing valve open.** Monitor and report any flow from surface casing. RDMO

Completion Engineer

Jamie Berghorn: 720/929-6230, 303/909-9740

Production Engineer

Boone Bajgier: 435/781-7096, 713/416-4816

Completion Supervisor Foreman

Jeff Samuels: 435/828-6515, 435/781-7046

Completion Manager

Jeff Dufresne: 720/929-6281, 303/241-8428

Vernal Main Office

435/789-3342

Emergency Contact Information—Call 911

Vernal Regional Hospital Emergency: 435-789-3342

Police: (435) 789-5835

Fire: 435-789-4222

Service Company Supplied Chemicals - Job Totals

Friction Reducer	60	gals @	0.3	GPT
Surfactant	149	gals @	0.75	GPT
Clay Stabilizer	0	gals @	0.0	GPT
15% Hcl	1250	gals @	250	gal/stg
Iron Control for acid	6	gals @	5.0	GPT of acid
Surfactant for acid	3	gals @	2.0	GPT of acid
Corrosion Inhibitor for acid	8	gals @	6.0	GPT of acid

Third Party Supplied Chemicals Job Totals - Include Pumping Charge if Applicable

Scale Inhibitor	100	gals pumped	0.5	GPT (see schedule)
Biocide	60	gals @	0.3	GPT

Acid Pickling and H2S Procedures (If Required)

**\*\*PROCEDURE FOR PUMPING ACID DOWN TBG**

WHEN FINDING SCALE IN TUBING THAT IS ACID SOLUBLE, ENSURE THAT PLUNGER EQUIPMENT IS REMOVED AND ABLE TO PUMP DOWN TBG. INSTALL A 'T' IN PUMP LINE W/2" VALVE THAT NALCO CAN TIE INTO. HAVE 60 BBL 2% KCL MIXED W/ 10-15 GAL H2S SCAVENGER IN RIG FLAT TANK. (WE USED THE RIG FLAT TANK FOR MIXING CHEMICAL SO WE DIDN'T HAVE THE CHEMICAL IN ALL FLUIDS ON LOCATION, ONLY WHAT WE NEEDED TO PUMP DOWN HOLE)

1. PUMP 5-10 BBL 2% KCL DOWN TBG (NALCO CANNOT PUMP AGAINST PRESSURE)
2. NALCO WILL PUMP 3 DRUMS HCL (31%) INTO PUMP LINE.
3. FLUSH BEHIND ACID WITH 10-15 BBL 2% KCL
4. PUMP 2—30 BBL 2% W/ H2S SCAVENGER DOWN TBG.
5. PUMP REMAINDER OF 2% W/ H2S SCAVENGER DOWN CASING AND SHUT WELL IN FOR MINIMUM OF 2 HRS.
6. OVER DISPLACE DOWN TBG AND CSG TO FLUSH ACID AND SCAVENGER INTO FORMATION
7. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

**\*\* PROCEDURE FOR PUMPING H2S SCAVENGER WITHOUT ACID**

PRIOR TO RIG MOVING ON OR AS RIG PULLS ONTO LOCATION. TEST CASING, TUBING AND SEPARATOR FOR H2S. IF FOUND MAKE SURE THAT PLUNGER SYSTEM IS REMOVED (IT IS POSSIBLE TO PUMP AROUND PLUNGERS BUT SOME WILL HAVE A STANDING VALVE IN SEATING NIPPLE).

1. MIX 10-15 GAL H2S SCAVENGER WITH 60-100 BBL 2% KCL IN RIG FLAT TANK.
2. PUMP 25 BBL MIXTURE DOWN TUBING AND REST DOWN CASING. SHUT WELL IN FOR 2 HOURS.
3. IF WELL HAS PRESSURE AFTER 2 HOURS – RETEST CASING AND TUBING FOR H2S.
4. FLUSH TUBING AND CASING PUSHING H2S SCAVENGER INTO FORMATION.
5. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

\*\* As per APC standard operating procedure, APC foreman will verify ALL volumes pumped and record on APC Volume Report Form

**Fracturing Schedules**  
**Bonanza 1023-5E2AS**  
**Slickwater Frac**

Copy to new book

Casing Size	4.5
Recomplete?	N
Pad?	Y
ACTS?	Y
Days on Pad?	3
Wells on Pad?	5

Swabbing Days	0
Production Log	0
DFIT	0
GR only	Y
Low Scale	Y
Clay Stab.	N

Enter Number of swabbing days here for recompletes  
 Enter 1 if running a Production Log  
 Enter Number of DFITs  
 Enter Y if only Gamma Ray log was run  
 Enter Y if a LOW concentration of Scale Inhibitor will be pumped  
 Enter N if there will be NO Clay stabilizer

Stage	Zone	Perfs Top, ft.   Bot., ft.	SPF Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.
1	MESAVERDE	7305   7306	3	Varied	Pre-Pad & Pump-in test	0.25	0.625	Slickwater	4,769	4,769	114	114						2
	MESAVERDE	7373   7374	3	3	0 ISIP and 5 min ISIP			Slickwater	6,090	10,859	145	259	15.0%	0.0%	0	0		3
	MESAVERDE	7378   7379	3	3	50 Slickwater Pad	0	0	Slickwater	11,503	22,362	274	532	28.3%	21.9%	5,033	5,033		6
	MESAVERDE	7476   7477	3	3	50 Slickwater Ramp	0	0	Slickwater	22,362	44,724	0	532	28.3%	0.0%	0	0		6
	MESAVERDE	7483   7495	3	6	50 SW Sweep	0.63	0.75	Slickwater	11,503	33,865	274	806	28.3%	34.4%	7,909	12,941		6
	MESAVERDE	7509   7511	3	6	50 Slickwater Ramp	0	0	Slickwater	33,865	67,730	0	806	28.3%	0.0%	0	0		6
	MESAVERDE				50 SW Sweep	0.25	0.75	Slickwater	33,865	101,595	0	806	28.3%	0.0%	0	0		6
	MESAVERDE				50 Slickwater Ramp	0.75	1	Slickwater	11,503	113,098	274	1,080	28.3%	43.8%	10,065	23,007		6
	MESAVERDE				50 Flush (4-12)			Slickwater	4,769	117,867	114	1,194			23,007	23,007		2
	MESAVERDE				50 ISDP and 5 min ISDP			Sand laden Volume	50,137	168,004					700	397	64	25
<b>Flush depth 7,305</b>																		
2	MESAVERDE	6984   6995	3	24	<< Above pump time (min)			Slickwater	0	0	0	0						
	MESAVERDE	7049   7050	3	3	Varied Pump-in test	0.25	0.625	Slickwater	7,455	7,455	178	178	15.0%	0.0%	0	0		4
	MESAVERDE	7136   7137	3	3	0 ISIP and 5 min ISIP			Slickwater	14,082	21,537	335	513	28.3%	21.9%	6,161	6,161		7
	MESAVERDE	7159   7160	3	3	50 Slickwater Pad	0	0	Slickwater	21,537	43,074	0	513	28.3%	0.0%	0	0		7
	MESAVERDE	7181   7183	3	6	50 Slickwater Ramp	0.63	0.75	Slickwater	14,082	35,618	335	848	28.3%	34.4%	9,681	15,842		7
	MESAVERDE	7209   7211	3	6	50 SW Sweep	0	0	Slickwater	35,618	71,236	0	848	28.3%	0.0%	0	0		7
	MESAVERDE				50 Slickwater Ramp	0.25	0.75	Slickwater	35,618	106,854	0	848	28.3%	0.0%	0	0		7
	MESAVERDE				50 Slickwater Ramp	0.75	1	Slickwater	14,082	120,936	335	1,183	28.3%	43.8%	12,321	28,163		7
	MESAVERDE				50 Flush (4-12)			Slickwater	4,566	125,502	109	1,292			28,163	28,163		2
	MESAVERDE				50 ISDP and 5 min ISDP			Sand laden Volume	49,700	175,202					700	397	129	27
<b>Flush depth 6,994</b>																		
3	MESAVERDE	6609   6611	3	24	<< Above pump time (min)			Slickwater	0	0	0	0						
	MESAVERDE	6615   6617	3	6	Varied Pump-in test	0.25	0.625	Slickwater	4,208	4,208	100	100	15.0%	0.0%	0	0		2
	MESAVERDE	6729   6731	3	6	0 ISIP and 5 min ISIP			Slickwater	7,948	12,156	189	289	28.3%	21.9%	3,477	3,477		4
	MESAVERDE	6835   6835	3	6	50 Slickwater Pad	0	0	Slickwater	12,155	24,311	0	289	28.3%	0.0%	0	0		4
	MESAVERDE				50 Slickwater Ramp	0.63	0.75	Slickwater	7,948	32,259	189	479	28.3%	34.4%	5,464	8,941		4
	MESAVERDE				50 SW Sweep	0	0	Slickwater	20,103	52,362	0	479	28.3%	0.0%	0	0		4
	MESAVERDE				50 Slickwater Ramp	0.25	0.75	Slickwater	20,103	72,465	0	479	28.3%	0.0%	0	0		4
	MESAVERDE				50 Slickwater Ramp	0.75	1	Slickwater	7,948	80,413	189	668	28.3%	43.8%	6,954	15,895		4
	MESAVERDE				50 Flush (4-12)			Slickwater	4,524	84,937	108	776			15,895	15,895		2
	MESAVERDE				50 ISDP and 5 min ISDP			Sand laden Volume	28,050	112,987					1,700	963	14	16
<b>Flush depth 6,609</b>																		

Stage	Zone	Perfs		Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.		
		Top, ft.	Bot., ft.																		
4	WASATCH	6494	6496	3	6	Varied			Slickwater	0	0	0	0								
	MESAVERDE	6541	6544	3	9	0 ISIP and 5 min ISIP			Slickwater	4,935	4,935	118	118	15.0%	0.0%	0	0		2		
	MESAVERDE	6578	6581	3	9	50 Slickwater Pad	0.625	0	Slickwater	9,322	14,257	222	339	28.3%	21.9%	4,078	4,078		5		
	MESAVERDE					50 SW Sweep	0	0	Slickwater	0	14,257	0	339	28.3%	0.0%	0	4,078		0		
	MESAVERDE					50 Slickwater Ramp	0.63	0.75	Slickwater	9,322	23,578	222	561	28.3%	34.4%	6,409	10,487		5		
	MESAVERDE					50 SW Sweep	0	0	Slickwater	0	23,578	0	561	0.0%	0.0%	0	10,487		0		
	MESAVERDE					50 Slickwater Ramp	0.25	0.75	Slickwater	0	23,578	0	561	28.3%	0.0%	0	10,487		0		
	MESAVERDE					50 Slickwater Ramp	0.75	1	Slickwater	9,322	32,900	222	783	28.3%	43.8%	8,156	18,643		5		
	MESAVERDE					50 Flush (4-1/2) ISDP and 5 min ISDP			Slickwater	4,239	37,139	101	884				18,643		2		
	MESAVERDE								Sand laden Volume	32,900							793 lbs sand/ft		19		
						24											1,400	5,960	534		
	5	WASATCH	5728	5730	3	6	17.7			Slickwater	0	0	0	0							
		WASATCH	5754	5756	3	6	0 ISIP and 5 min ISIP			Slickwater	3,750	3,750	89	89	15.0%	0.0%	0	0		2	
WASATCH		5860	5862	3	6	50 Slickwater Pad	0.25	1	Slickwater	12,500	16,250	298	387	50.0%	37.3%	7,813	7,813		6		
WASATCH		5928	5930	3	6	50 Slickwater Ramp	1	2	Slickwater	8,750	25,000	208	595	35.0%	62.7%	13,125	20,938		4		
WASATCH						50 Slickwater Ramp			Slickwater	28,739	28,739	89	684				20,938		0		
WASATCH						50 Flush (4-1/2) ISDP and 5 min ISDP			Slickwater	3,739	28,739	89	684				20,938		0		
WASATCH									Sand laden Volume	25,000							1,675 lbs sand/ft		0		
WASATCH																	50		0		
WASATCH																	2,000	5,678		0	
WASATCH																				13	
						24												1,675	5,678	50	
						120	13.7														
							0.0														
Totals									Total Fluid	202,856 gals	4,830 bbls		4,830		Total Sand	106,646			100		
						1.6				4,830 bbls				10.7 tanks		Total Scale Inhib. =	5 stages				
																	3,739 gals				

**Bonanza 1023-5E2AS**  
**Perforation and CBP Summary**

Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
1	MESAVERDE	7305	7306	3	3	7298	to	7513.5
	MESAVERDE	7373	7374	3	3			
	MESAVERDE	7378	7379	3	3			
	MESAVERDE	7476	7477	3	3			
	MESAVERDE	7493	7495	3	6			
	MESAVERDE	7509	7511	3	6			
	MESAVERDE							
	MESAVERDE							
	# of Perfs/stage				24	CBP DEPTH	7,241	
2	MESAVERDE	6994	6995	3	3	6994	to	7229
	MESAVERDE	7049	7050	3	3			
	MESAVERDE	7136	7137	3	3			
	MESAVERDE	7159	7160	3	3			
	MESAVERDE	7181	7183	3	6			
	MESAVERDE	7209	7211	3	6			
	MESAVERDE							
	MESAVERDE							
	# of Perfs/stage				24	CBP DEPTH	6,865	
3	MESAVERDE	6609	6611	3	6	6609	to	6839
	MESAVERDE	6615	6617	3	6			
	MESAVERDE	6729	6731	3	6			
	MESAVERDE	6833	6835	3	6			
	MESAVERDE							
	MESAVERDE							
	MESAVERDE							
	MESAVERDE							
	# of Perfs/stage				24	CBP DEPTH	6,595	
4	WASATCH	6494	6496	3	6	6493	to	6585
	MESAVERDE	6541	6544	3	9			
	MESAVERDE	6578	6581	3	9			
	MESAVERDE							
	MESAVERDE							
	MESAVERDE							
	MESAVERDE							
	MESAVERDE							
	# of Perfs/stage				24	CBP DEPTH	5,960	
5	WASATCH	5728	5730	3	6	5728	to	5933
	WASATCH	5754	5756	3	6			
	WASATCH	5860	5862	3	6			
	WASATCH	5928	5930	3	6			
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	# of Perfs/stage				24	CBP DEPTH	5,678	
	Totals				120	Total Pay		181.5

MD	TVD	EW	NS	INC	AZI	MD	TVD	EW	NS	INC	AZI
11	11	0	0	0	0	4414	4270.99	-110.14	-923.83	1.25	333.12
184	184	-0.8	-0.06	0.53	265.65	4503	4359.97	-111.1	-922.2	1.19	325.25
269	268.99	-1.88	-0.69	1.23	228.91	4592	4448.95	-112.17	-920.82	1.06	319.37
351	350.96	-2.66	-2.59	1.85	185.06	4681	4537.94	-113.09	-919.76	0.75	318.62
441	440.88	-2.27	-6.28	2.93	167.03	4770	4626.93	-113.81	-919.05	0.56	309.5
531	530.69	-1.07	-12.04	4.57	168.97	4860	4716.93	-114.41	-918.54	0.44	309.87
621	620.3	-0.49	-20.31	6.07	181.28	4994	4850.93	-115.02	-918.02	0.25	311.75
711	709.69	-1.9	-30.64	7.3	193.23	5099	4955.92	-115.41	-917.4	0.56	334.87
801	798.74	-4.21	-43.46	9.37	187.87	5188	5044.92	-115.81	-916.57	0.63	334.12
891	887.25	-6.72	-59.51	11.43	189.71	5277	5133.91	-116.18	-915.8	0.47	335.67
981	975.15	-10.01	-78.56	13.37	189.89	5365	5221.91	-116.41	-915.24	0.31	339.87
1071	1062.27	-13.72	-100.8	15.65	189.1	5454	5310.91	-116.5	-914.87	0.19	354.25
1161	1148.49	-17.64	-126.3	17.67	188.4	5543	5399.91	-116.45	-914.79	0.13	134.37
1251	1233.85	-21.64	-154.52	19.26	187.78	5632	5488.91	-116.34	-915.16	0.38	174
1341	1318.61	-25.67	-184.52	20.05	187.52	5722	5578.91	-116.12	-915.8	0.5	151.12
1431	1403.08	-29.64	-215.31	20.31	187.16	5811	5667.9	-115.68	-916.66	0.75	153.5
1521	1487.42	-33.65	-246.49	20.58	187.52	5901	5757.89	-115.06	-917.78	0.88	149
1611	1571.75	-37.36	-277.71	20.31	186.02	5990	5846.89	-115.04	-917.83	0.81	328.25
1701	1656.52	-40.84	-307.71	18.91	187.25	6078	5934.88	-115.65	-916.8	0.75	330.5
1791	1741.51	-44.63	-337.09	19.52	187.43	6167	6023.88	-116.2	-915.88	0.63	327
1881	1826.31	-48.34	-367.01	19.62	186.73	6255	6111.87	-116.59	-915.16	0.44	338.62
1971	1911.09	-51.97	-397	19.61	187.08	6343	6199.87	-116.72	-914.61	0.31	357.75
2061	1995.82	-56.13	-427.05	19.79	188.66	6433	6289.87	-116.63	-914.36	0.13	83.5
2151	2080.37	-61.06	-457.51	20.31	189.71	6520	6376.87	-116.3	-914.38	0.31	98.62
2241	2164.72	-66.66	-488.37	20.49	190.86	6608	6464.87	-115.74	-914.63	0.5	124.25
2331	2249.12	-71.84	-519.19	20.15	188.22	6695	6551.86	-115.15	-915.17	0.56	139.75
2421	2333.65	-76.32	-549.76	20.01	188.45	6783	6639.86	-114.59	-915.94	0.69	147.25
2461	2371.32	-78.15	-563.1	19.35	187.16	6869	6725.85	-114.04	-916.82	0.69	148
2559	2463.85	-81.05	-595.25	19.13	183.13	6957	6813.84	-113.42	-917.91	0.94	152.12
2648	2547.58	-83.62	-625.3	20.5	186.5	7047	6903.83	-112.37	-919.31	1.31	136.75
2736	2630.15	-87.32	-655.48	19.94	187.52	7136	6992.81	-112.38	-920.57	1.13	233.5
2825	2713.62	-91.23	-686.13	20.69	187	7225	7081.79	-114	-921.8	1.5	232.37
2913	2795.98	-94.83	-716.92	20.56	186.37	7315	7171.76	-115.28	-923.44	1.25	200.75
3002	2879.66	-97.85	-747.07	19.25	185	7402	7258.76	-115.57	-924.56	0.31	166.37
3091	2964.09	-100.07	-775.13	17.63	184	7492	7348.75	-116.03	-924.52	0.75	297.5
3177	3046.35	-101.39	-800.15	16.25	182	7581	7437.74	-116.7	-923.44	1.06	349.12
3267	3133.26	-102.59	-823.51	13.88	184	7667	7523.71	-117.41	-921.22	2.06	339
3356	3219.88	-103.48	-843.89	12.63	180.87	7755	7611.67	-118.63	-918.74	1.56	326.87
3443	3304.89	-103.83	-862.39	11.93	181.29	7844	7700.64	-119.81	-917.02	1.13	323.5
3532	3392.13	-104.01	-879.98	10.88	179.87	7932	7788.63	-120.72	-916.04	0.63	306
3622	3480.76	-104.5	-895.65	9.19	184	8022	7878.63	-121.46	-915.56	0.5	298.75
3708	3565.84	-105.93	-908.07	7.56	189.75	8111	7967.62	-122.23	-915.46	0.56	258.25
3796	3653.33	-107.19	-917.32	4.63	184.5	8200	8056.62	-122.89	-916.08	0.75	203.75
3885	3742.11	-107.83	-923.5	3.38	187.87	8286	8142.61	-123.09	-917.2	0.81	177
3974	3831.03	-108.28	-927.17	1.38	184.87	8372	8228.6	-122.93	-918.46	0.88	169.12
4061	3918.02	-108.43	-927.88	0.44	350.75	8460	8316.59	-122.59	-919.77	0.88	162.12
4149	4006.02	-108.62	-927.19	0.5	338.87	8549	8405.58	-122.12	-921.25	1.13	162.62
4237	4094.02	-108.78	-926.74	0.13	349.12	8627	8483.56	-121.51	-922.88	1.42	156.83
4324	4181.01	-109.24	-925.69	1.38	335.12	8677	8533.54	-121.02	-924.02	1.42	156.83

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU33433
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
		<b>7. UNIT or CA AGREEMENT NAME:</b> PONDEROSA
<b>1. TYPE OF WELL</b> Gas Well		<b>8. WELL NAME and NUMBER:</b> BONANZA 1023-5E2AS
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>9. API NUMBER:</b> 43047520950000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0529 FNL 0490 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S		<b>COUNTY:</b> UINTAH
		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> APD EXTENSION	
<input type="checkbox"/> SPUD REPORT Date of Spud:	OTHER: <input style="width: 100px;" type="text"/>	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/10/2014		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
THE SUBJECT WELL WAS RETURNED TO PRODUCTION ON 4/10/2014 FOLLOWING A RECOMPLETE. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY          April 11, 2014</b>		
<b>NAME (PLEASE PRINT)</b> Teena Paulo	<b>PHONE NUMBER</b> 720 929-6236	<b>TITLE</b> Staff Regulatory Specialist
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/11/2014	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires: October 31, 2014

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. Lease Serial No.  
UTU33433

1a. Type of Well  Oil Well  Gas Well  Dry  Other  
 b. Type of Completion:  New Well  Work Over  Deepen  Plug Back  Diff. Resrv.,  
 Other: **RECOMPLETION**

6. If Indian, Allottee or Tribe Name

2. Name of Operator  
KERR MCGEE OIL & GAS ONSHORE, L.P.

7. Unit or CA Agreement Name and No.  
UTU88209A

3. Address PO BOX 173779  
DENVER, CO 80217

3a. Phone No. (include area code)  
720-929-6000

8. Lease Name and Well No.  
BONANZA 1023-5E2AS

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*

At surface NWNW 529 FNL 490 FWL

At top prod. interval reported below SWNE 1445 FNL 374 FWL

At total depth SWNW 1453 SNL 369 FWL

10. Field and Pool or Exploratory  
NATURAL BUTTES

11. Sec., T., R., M., on Block and Survey or Area  
SEC 5, T10S, R23E SLB

12. County or Parish  
UINTAH

13. State  
UT

14. Date Spudded  
08/16/2012

15. Date T.D. Reached  
11/22/2012

16. Date Completed 04/10/2014  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
5254 RKB

18. Total Depth: MD 8677  
TVD 8534

19. Plug Back T.D.: MD 8576  
TVD 8433

20. Depth Bridge Plug Set: MD  
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
SD/DSN/ACTR-BHV-RPM-RABL

22. Was well cored?  No  Yes (Submit analysis)  
 Was DST run?  No  Yes (Submit report)  
 Directional Survey?  No  Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cement Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20	14 STL	36.7	0	40		28			
11.0	8.625 J-55	28.0	15	2497		900		0	
7.875	4.5 I-80	11.6	15	8653		1575		351	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	5669							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	5728	6496	5728-6496	0.40	30	OPEN
B) MESAVERDE	6541	7511	6541-7511	0.40	90	OPEN
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
5728-7511	PUMP 5027 BBLS SLICK H2O, 30 BBLS 15% HCL ACID, & 106,790 LBS 30/50 MESH SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
4/10/14	5/23/14	24	→	3	924	0			PUMPING
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
20/64	132	473	→	3	924	0		PRODUCING	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

\*(See instructions and spaces for additional data on page 2)

28b. Production - Interval C									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			➔						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			➔						

28c. Production - Interval D									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			➔						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			➔						

29. Disposition of Gas (Solid, used for fuel, vented, etc.)

SOLD

30. Summary of Porous Zones (Include Aquifers):  
 Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER	1067
				BIRD'S NEST	1452
				MAHOGANY	2057
				WASATCH	4417
				MESAVERDE	6538

32. Additional remarks (include plugging procedure):

Attached is the recompletion history and perforation report. Casing in the well is as previously reported on the original Completion Report. The well was originally completed in the Mesaverde from 7686-8525. The well was recompleted with an iso plug set at 7545 ft.; new perforations in the Wasatch are from 5728-6496 and in the Mesaverde from 6541-7511. The iso plug was drilled out on 5/21/14 and the well is producing from all commingled perforations.

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- Electrical/Mechanical Logs (1 full set req'd.)     
  Geologic Report     
  DST Report     
  Directional Survey  
 Sundry Notice for plugging and cement verification     
  Core Analysis     
  Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) ILA J. BEALE Title STAFF REGULATORY SPECIALIST  
 Signature  Date 5-27-2014

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

US ROCKIES REGION  
Operation Summary Report

Well: BONANZA 1023-5E2AS GREEN

Spud Date: 9/20/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5D PAD

Rig Name No: MILES 3/3

Event: RECOMPL/RESEREVEADD

Start Date: 3/13/2014

End Date: 4/10/2014

Active Datum: RKB @5,254.00usft (above Mean Sea Level)

UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/529/W/0/490/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
3/13/2014	15:00 - 17:30	2.50	SUBSPR	30	A	P		MOVED OVER & RIGGED UP.SICP & SITP , CONTROL WELL W/ 20 BBLs T-MAC. ND WH NU BOPS RU FLOOR UNLAND TBG, L/D HANGER.
3/14/2014	7:00 - 7:30	0.50	SUBSPR	48		P		HSM, WIRELINE, PRESSURE TESTING, SUSPENDED LOADS, WORKING W/ SCANTECH.
	7:30 - 12:00	4.50	SUBSPR	31	I	P		SICP 514 OPEN TO PIT, CONTROL TBG W/ 20 BBLs, RU SCAN OUT W/ 255 JTS 105 L-80 88 YELLOW, 3 BLUE, 14 RED, 6' L-80 PUP, 150 JTS J-55 138 YELLOW, 4 BLUE, 8 RED. MED EXTERNAL SCALE JTS 130-217, LIGHT EXTERNAL JTS 224-255.RD SCANTECH
	12:00 - 17:30	5.50	SUBSPR	34	I	P		RU CASED HOLE, RIH W/ 41/2 GR TO 7650' POOH RIH SET 41/2 10K CBP @ 7545' POOH RD WL. FILL HOLE & TEST CSG TO 3,000 W/ RIG PUMP. ND BOPS NU FV, TEST CSG TO 6200 PSI FOR 15 MIN LOST 10# GOOD TEST, RD CAMERON RIG DOWN RIG RACK OUT EQUIP SDFWE
3/21/2014	7:00 - 8:00	1.00	SUBSPR	37		P		PERF STG 1)PU 3 1/8 EXP GUN, 19 GM, .40 HOLE SIZE. RIH PERFWELL, AS PER PERF DESIGN. POOH. SWIFW
3/25/2014	7:00 - 7:15	0.25	FRAC	48		P		HSM, CHECKING VALVES
	7:15 - 17:30	10.25	FRAC	36	B	P		REFER TO STIMULATION PJR FOR FLUID, SAND AND CHEMICAL VOLUMES, ALL STAGES WERE PERFORATED ACCORDING TO PERF RECORD IN OPEN WELLS, ALL STAGES WERE STIMULATED TO VENDOR POST JOB REPORT. ALL PLUGS ARE HALIBURTON 8K CBPS
								FRAC STG #1] WHP=256#, BRK DN PERFS=3,561#, @=4.9 BPM, INTIAL ISIP=1,745#, FG=.67, FINAL ISIP=2,435#, FG=.77,
								SET PLUG & PERFORATE STG #2
								FRAC STG #2] WHP=830#, BRK DN PERFS=2,797#, @=8.8 BPM, INTIAL ISIP=1,418#, FG=.64, FINAL ISIP=2,285#, FG=.76,
								SET PLUG & PERFORATE STG #3
								FRAC STG #3] WHP=602#, BRK DN PERFS=5,058#, @=4 BPM, INTIAL ISIP=2,330#, FG=.79, FINAL ISIP=2,107#, FG=.75,
								SET PLUG PERFORATE STG #4 SWIFN.
3/26/2014	6:15 - 6:30	0.25	FRAC	48		P		HSM, RIGGING DOWN / PINCH POINTS

US ROCKIES REGION  
Operation Summary Report

Well: BONANZA 1023-5E2AS GREEN

Spud Date: 9/20/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5D PAD

Rig Name No: MILES 3/3

Event: RECOMPL/RESEREVEADD

Start Date: 3/13/2014

End Date: 4/10/2014

Active Datum: RKB @5,254.00usft (above Mean Sea Level)

UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/529/W/0/490/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:30 - 6:30	0.00	FRAC	36	B	P		FRAC STG #4] WHP=660#, BRK DN PERFS=2,834#, @=3.7 BPM, INTIAL ISIP=1,254#, FG=.63, FINAL ISIP=2,076#, FG=.76,  SET PLUG PERFORATE STG #5  FRAC STG #5] WHP=517#, BRK DN PERFS=1,998#, @=3.5 BPM, INTIAL ISIP=1,329#, FG=.67, FINAL ISIP=1,555#, FG=.71,  SET TOP KILL  TOTAL FLUID: 5057 TOTAL SAND= 106790#
4/9/2014	7:00 - 7:30	0.50	DRLOUT	48		P		HSM, ROADING RIG & EQUIP.
	7:30 - 11:00	3.50	DRLOUT	30	A	P		MIRU F/ 921-8F ON 4 OF 4, ND WH NU BOPS RU FLOOR & EQUIP.
	11:00 - 15:30	4.50	DRLOUT	31	I	P		TALLY & PU 37/8 BIT,PUMPOPEN SUB, 1.875 X/N 150 JTS 23/8, 6' L-80 PUP, 33 JTS 23/8 L-80, TAG @ 5671', RU DRL EQUIP, FILL & TEST CGS & BOPS TO 3,000 PSI, PREP TO D/O IN AM SWI SDFN.
4/10/2014	7:00 - 7:30	0.50	DRLOUT	48		P		HSM, WORKING W/ FOAM UNIT DRILLING PLUGS.

## US ROCKIES REGION

## Operation Summary Report

Well: BONANZA 1023-5E2AS GREEN

Spud Date: 9/20/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5D PAD

Rig Name No: MILES 3/3

Event: RECOMPL/RESEREVEADD

Start Date: 3/13/2014

End Date: 4/10/2014

Active Datum: RKB @5,254.00usft (above Mean Sea Level)

UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/529/W/0/490/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:30 - 15:00	7.50	DRLOUT	44	C	P		<p>BROKE CIRC W/ AIR/FOAM, RIH</p> <p>C/O 15' SAND TAG 1ST PLUG @ 578' DRL PLG IN 7 MIN, 100 PSI INCREASE RIH.</p> <p>C/O 30' SAND TAG 2ND PLUG @ 5960' DRL PLG IN 4 MIN, 50 PSI INCREASE RIH.</p> <p>C/O 15' SAND TAG 3RD PLUG @ 6595' DRL PLG IN 7 MIN, 150 PSI INCREASE RIH.</p> <p>C/O 35' SAND TAG 4TH PLUG @ 6865' DRL PLG IN 7 MIN, 400 PSI INCREASE RIH.</p> <p>C/O 25' SAND TAG 5TH PLUG @ 7241' DRL PLG IN 6 MIN, 500 PSI INCREASE RIH.</p> <p>C/O TO 7532', CIRC CLN, RD SWIVEL, L/D 9 JTS, LAND TBG, ND BOPS NU WH, TEST FL, PUMPED OFF BIT, TURN WELL TO FB CREW. RIGGED DOWN, PREP TO MOVE TO 1022-2I PAD IN AM, SDFN</p> <p>KB = 15'  41/16 HANGER = .83'  82 JTS 23/8 L-80 = 2602.66'  6' L-80 PUP JT = 6.13'  150 JTS 23/8 J-55 = 4629.67'  PUMP OPEN W/ 1.875 X/N = 3.97'  EOT @ 7258.26'</p> <p>TWTR 5327 BBLS  TWR 500 BBLS  TWLTR 4827 BBLS</p> <p>250 JT HAULED OUT, 150- J-55, 100 L-80.  232 LANDED  18 TO RETURN L-80</p>
	15:00 - 15:00	0.00	DRLOUT	50				<p>WELL TURNED TO SALES @ 13:30 HR ON 4/10/2014. 860 MCFD, 600 BWPD, FCP 1050#, FTP 500#, 24/64" CK.</p>

US ROCKIES REGION  
**Operation Summary Report**

Well: BONANZA 1023-5E2AS GREEN

Spud Date: 9/20/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5D PAD

Rig Name No: MILES 3/3

Event: RECOMPL/RESEREVEADD

Start Date: 5/15/2014

End Date:

Active Datum: RKB @5,254.00usft (above Mean Sea Level)

UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/529/W/0/490/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
5/20/2014	12:00 - 15:00	3.00	DRLOUT	30	A	P		4 OF 4, MOVED OVER & RIGGED UP, FTP 200 , SICP 518 , CONTROL TBG W/ 20 BBLS, ND WH NU BOPS, LUB OUT HANGER.
	15:00 - 17:00	2.00	DRLOUT	31	I	P		POOH W/ 82 JTS 23/8 L-80, PUP JT, 70 JTS 23/8 J-55, SWI SDFN.
	12:00 - 15:00	3.00	DRLOUT	30	A	P		4 OF 4, MOVED OVER & RIGGED UP, FTP 200 , SICP 518 , CONTROL TBG W/ 20 BBLS, ND WH NU BOPS, LUB OUT HANGER.
	15:00 - 17:00	2.00	DRLOUT	31	I	P		POOH W/ 82 JTS 23/8 L-80, PUP JT, 70 JTS 23/8 J-55, SWI SDFN.
5/21/2014	7:00 - 7:30	0.50	DRLOUT	48		P		HSM, WORKING W/ FOAM UNIT & CHECKING FOR H2S.
	7:30 - 10:00	2.50	DRLOUT	31	I	P		4 OF 4, SICP 1058 OPEN TO PIT CONTROL TBG W/ 5 BBLS, POOH W/ REM 80 JTS 23/8 J-55, L/D PUMP OPEN SUB & BIT, PU RIH W/ 37/8 MILL, POBS & 150 JTS 23/8 J-55, 6' L-80 PUP, 82 JTS 23/8 L-80. PU PU 10 JTS 23/8 L-80 TAG @ 7536', RU SWIVEL.
	10:00 - 14:00	4.00	DRLOUT	44	C	P		BROKE CIRC W/ AIR/FOAM C/OM 9' SAND D/O ISO PLUG @ 7545' IN 15 MIN 0 INCREASE.CIRC CLN, KILL TBG PULL 2 JTS REM TSF RIH TAG @ 8554' RU SWIVEL BROKE CIRC W/ AIR /FOAM C/O F/ 8554' - 8576' HIT OLD POBS, CIRC CLN, KILL TBG, RD SWIVEL.
	14:00 - 17:30	3.50	DRLOUT	31	I	P		L/D 92 JTS 23/8 L-80.POOH W/ REM TBG L/D POBS PU RIH W/ 1.875 X/N & 86 JTS BROCHING EOT @ 2965' SWI SDFN.
5/22/2014	7:00 - 7:30	0.50	DRLOUT	48		P		HSM, TRIPPING TBG & RUNNING BROACH ON SAND LINE.
	7:30 - 10:00	2.50	DRLOUT	31	I	P		4 OF 4, SICP 1010, SITP 1010, OPEN CSG TO FB TNK, CONTROL TBG W/ 10 BBLS, RIH W/ REM 64 JTS 23/8 J-55, 6' L-80 PUP, 32 JTS 23/8 L-80 BROACHING,LUB IN HANGER & LAND, ND BOPS NU WH SWI, RIGGED DOWN WELL IS READY FOR LOGGING.  KB = 15' HANGER = .83' 32 JTS 23/8 L-80 = 1016.70' L-80 PUP JT = 6.13' 150 JTS 23/8 L-80 = 4629.67' 1.875 X/N = 1.05' EOT @ 5669.38'  TWTR 90 BBLS.

US ROCKIES REGION

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	BONANZA 1023-5EZAS GREEN	Wellbore No.	OH
Well Name	BONANZA 1023-5EZAS	Wellbore Name	BONANZA 1023-5EZAS
Report No.	1	Report Date	3/10/2014
Project	UTAH-UJINTAH	Site	BONANZA 1023-5D PAD
Rig Name/No.		Event	RECOMPL/RESERVE/ADD
Start Date	3/13/2014	End Date	4/10/2014
Spud Date	9/20/2012	Active Datum	RKB @5.254.00usft (above Mean Sea Level)
UWI	NW/NW/0/10/S/23/E/5/0/0/26/PM/N/529W/0/490/0/0		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

Fluid Type	Fluid Density	Gross Interval	5.728.0 (usft)-7.511.0 (usft)	Start Date/Time	3/10/2014 12:00AM
Surface Press	Estimate Res Press	No. of Intervals	23	End Date/Time	3/10/2014 12:00AM
TVD Fluid Top	Fluid Head	Total Shots	120	Net Perforation Interval	40.00 (usft)
Hydrostatic Press	Press Difference	Avg Shot Density	3.00 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL			Final Press Date	

1.5 Summary

Fluid Type	Fluid Density	Gross Interval	5.728.0 (usft)-7.511.0 (usft)	Start Date/Time	3/10/2014 12:00AM
Surface Press	Estimate Res Press	No. of Intervals	23	End Date/Time	3/10/2014 12:00AM
TVD Fluid Top	Fluid Head	Total Shots	120	Net Perforation Interval	40.00 (usft)
Hydrostatic Press	Press Difference	Avg Shot Density	3.00 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL			Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
3/10/2014 12:00AM	WASATCH/			5,728.0	5,730.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N

## US ROCKIES REGION

## 2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc./Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
3/10/2014 12:00AM	WASATCH/			5,754.0	5,756.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
3/10/2014 12:00AM	WASATCH/			5,860.0	5,862.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
3/10/2014 12:00AM	WASATCH/			5,928.0	5,930.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
3/10/2014 12:00AM	WASATCH/			6,494.0	6,496.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
3/10/2014 12:00AM	MESAVERDE/			6,541.0	6,544.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
3/10/2014 12:00AM	MESAVERDE/			6,578.0	6,581.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
3/10/2014 12:00AM	MESAVERDE/			6,609.0	6,611.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
3/10/2014 12:00AM	MESAVERDE/			6,615.0	6,617.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
3/10/2014 12:00AM	MESAVERDE/			6,729.0	6,731.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
3/10/2014 12:00AM	MESAVERDE/			6,833.0	6,835.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
3/10/2014 12:00AM	MESAVERDE/			6,994.0	6,995.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
3/10/2014 12:00AM	MESAVERDE/			7,049.0	7,050.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
3/10/2014 12:00AM	MESAVERDE/			7,136.0	7,137.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
3/10/2014 12:00AM	MESAVERDE/			7,159.0	7,160.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
3/10/2014 12:00AM	MESAVERDE/			7,181.0	7,183.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
3/10/2014 12:00AM	MESAVERDE/			7,209.0	7,211.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
3/10/2014 12:00AM	MESAVERDE/			7,305.0	7,306.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
3/10/2014 12:00AM	MESAVERDE/			7,373.0	7,374.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
3/10/2014 12:00AM	MESAVERDE/			7,378.0	7,379.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
3/10/2014 12:00AM	MESAVERDE/			7,476.0	7,477.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
3/10/2014 12:00AM	MESAVERDE/			7,493.0	7,495.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	

US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
3/10/2014 12:00AM	MESAVERDE/			7,509.0	7,511.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic

